



# Initial Environmental Examination (Addendum)

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Project Number: 40648-034  
September 2015  
(Addendum)

## IND: Infrastructure Development Investment Program for Tourism - Tranche 3

Submitted by

Project Management Unit, Tourism Development Board, Shimla

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**Asian Development Bank**

GM/VV

# Tourism Development Board

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**No. IDIPT-HP/3223-IND/IEE-13.1 & 16.2/2015-2767 Dated: 02.09.2015.**

Project Director

To

**The Country Director,  
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**Kind Attn: Mr. Leonardus Boenawan Sondjaja (ADB).**

**Subject: Submission of Addendum for IEE for Restoration of Shimla Mall Road Extension & Jwalaji under Tranche-3.**

**Ref No.: (i) ADB letter dated 31 July, 2015.  
(ii) ADB letter dated 6 August, 2015**

Madam,

We are in receipt of your suggestions conveyed vide above referred letters. Please find attached the addendum for Upgrading the historic Urban Projects & Creating a Heritage Circuit, Jwalaji town, Kangra (HPTDB/13/1) and Restoration of Shimla Mall Road Extension (HPTDB/16/2)

However the reply of the observations is attached in the matrix form. This is for your information and approval please.

Yours Sincerely,

*[Signature]*  
**Project Director,  
IDIPT-H.P.**

**Encl: As Above.**



*Received 2 Sep 15*  
*[Signature]*

**SUBJECT: LOAN 3223-IND: Infrastructure Development Investment Program for Tourism (IDIPT) (Project 3) (Himachal Pradesh Component)- -Revised Initial Environmental Examination (IEE) Report for Sub-project Upgrading the Historic Urban Projects and Creating a Heritage Circuit, Jwalaji Town, Kangra (Contract Package HPTDB/13/1)**

Response to ADB Fax dated 6th August, 2015 on the above subject.

Comments/Response Matrix below:

<b>S. No.</b>	<b>Point No</b>	<b>Description / Observation from ADB</b>	<b>Compliance</b>
1	4	During the desk review of the revised IEE report, the responsibility including the source of funds for the implementation of post construction mitigation measures in the environmental management plan (table 7 page 55) and environmental monitoring plan (table 9 page 64) has been assigned to the contractor. The report needs to specify the name of the agency that would be responsible for these requirements (including raising funds) beyond the defect liability period of the contractor. Further we note that activity of monitoring the environmental parameters such as ambient air quality, noise levels, etc. budgeted in table 11 (page 67) of the report is not reflected appropriately in environmental monitoring plan (table 9 page 58). We request you to ensure that the details provided in tables 8 and 11 are consistent.	<p>Most mitigation measures during post construction period are related to restoration and this is to be done by the contractor within the defect liability period of the contractor. Re-vegetation/ monitoring (if any) would be done by the PIU/PMU.</p> <p>The site will be handed over to the asset owner (Municipal Council/ Temple Trust, Jwalaji) after the restoration of the site and consent form asset owner will be taken to maintain the area with provisions of required solid waste management and aesthetic value</p> <p>The tables 7, 9 &amp; 11 have been rectified accordingly.</p>
2		Please provide these clarifications, and suitably revise the relevant tables as an addendum to this revised IEE report immediately.	<b>The addendum is attached herewith.</b> Further, the sample environmental monitoring templates of IEE, July, 2015 (refer Annexures-7 to 9) has also been revised as Annexure 7 (Environment Checklist) & Annexure 8 (EMR template), as already being used in Tranche-I projects.
3	6	Kindly Ensure that	
	(i)	The Implementation arrangement outlined in the revised IEE report are made fully functional	PIU at Dhaliyara (Kangra) in place. Environmental Safeguard Specialist in DSC/PMC/PMU in place
	(ii)	The revised IEE report including associated environmental management and monitoring plan (EMMP) is disclosed to public in local language;	IEE has already been disclosed in local language in January, 2015. Updated version will be disclosed by September, 2015.

S. No.	Point No	Description / Observation from ADB	Compliance
	(iii)	The EMMP is made a part of the bid and the contract documents	Already Complied
	(iv)	The item of the work towards the implementation of environmental management and monitoring by the contractor that are not a part of technical specifications and the bill of quantities, are specified separately in the bill of quantities in the contract document; and	Already Complied.
	(v)	The testing of environmental parameters at agreed locations is carried out by civil works contractor for ambient air quality and noise levels; surface and ground water quality; and soil for baseline data prior to commencement of civil works and then during the construction phase as per the environmental monitoring plan.	Testing is being done by PMU

Table 7: EMP Table during Post-Construction Phase

Potential Impact	Mitigation Measures	Parameter/ Indicator of Compliance	Responsible for Implementation	Responsible for Supervision	Frequency of Monitoring	Source of Funds
Solid waste (debris, excavated soils, etc.)	<ul style="list-style-type: none"> <li>Backfill any excavation and trenches, preferably with excess excavation material generated during the construction phase.</li> </ul>	<p>Pre-existing condition</p> <p>Construction zone has been restored</p>	Contractor within defect liability period	<p>PIU and DSC</p> <p>PIU to submit EMP monitoring report to PMU</p>	-visual inspection by contractor supervisor and/or environment specialist	Contractor
	<ul style="list-style-type: none"> <li>Use removed topsoil to reclaim disturbed areas.</li> </ul>	-DO-	-DO-	-DO-	-DO-	-DO-
	<ul style="list-style-type: none"> <li>Re-establish the original grade and drainage pattern to the extent practicable.</li> </ul>	-DO-	-DO-	-DO-	-DO-	-DO-
	<ul style="list-style-type: none"> <li>Stabilize all areas of disturbed vegetation using weed-free native shrubs, grasses, and trees.</li> </ul>	-DO-	-DO-	-DO-	-DO-	-DO-
	<ul style="list-style-type: none"> <li>Restore access roads, staging areas, and temporary work areas.</li> </ul>	-DO-	-DO-	-DO-	-DO-	-DO-
	<ul style="list-style-type: none"> <li>Restore roadside vegetation, if removed</li> </ul>	-DO-	PIU/PMU*	-DO-	-DO-	PMU
	<ul style="list-style-type: none"> <li>Remove all tools, equipment, barricades, signs, surplus materials, debris, and rubbish. Demolish buildings/structures not required for O&amp;M. Dispose in designated disposal sites.</li> </ul>	-DO-	Contractor within defect liability period	-DO-	-DO-	Contractor

Potential Impact	Mitigation Measures	Parameter/ Indicator of Compliance	Responsible for Implementation	Responsible for Supervision	Frequency of Monitoring	Source of Funds
	<ul style="list-style-type: none"> <li>Monitor success of re-vegetation and tree re-planting. Replace all plants determined to be in an unhealthy condition.</li> </ul>	Construction zone vegetation has been enhanced	PIU/PMU*	-DO-	-DO-	PMU
	<ul style="list-style-type: none"> <li>Request in writing from PIU/DSC that construction zones have been restored.</li> </ul>	Certificate	PMU	PMC/PMU	-DO-	PMU

*\* The site will be handed over to the asset owner (Jwalaji Temple Trust/ MC) after the restoration of the site and consent form asset owner will be taken to maintain the area with provisions of required solid waste management and aesthetic value*

Table 9: Indicative Environmental Monitoring Program

Potential Impact	Parameter to be monitored	Proposed Locations	Method of Monitoring	Frequency of monitoring	Indicator of Compliance	Cost	Source of Funds
<b>1. Detailed Design Phase</b>							
Consents, permits, clearances, no objection certificate (NOC), etc.	- Consents, permits, clearance, NOCs, etc. - Records and communications - Detailed design documents and drawings	n/a	Visual inspection	check CFEs, permits, clearance,  Acknowledge upon receipt  Send report as specified in CFE, permits, etc.	Obtained prior to start of civil works  Conditions of consents, permits, clearance, NOCs, etc incorporated in detailed design	already covered under PMU and PIU	PMU
Establishment of baseline environmental conditions prior to start of civil works and monitoring during-construction time	Ambient air quality – RSPM, SO <sub>2</sub> , NO <sub>2</sub>	Two locations proposed as under: 1. Jwalaji Temple complex 2. Parking area opposite to Hotel Jwalaji, HPTDC	Collection of air samples (continuously 24 hours)	Twice,  1. Prior to start of civil works 2. During construction  (Pre-monsoon or Post-monsoon)	baseline data included in updated IEE report	4,000 per sample (total four samples)  Transportation charges extra (L.S. 20,000)	PMU
	Noise levels – day time	Two locations proposed as under: 1. Jwalaji Temple complex 2. Parking area opposite	Use of noise meters (once)	Twice,  1. Prior to start of civil works  2. During construction (Pre-monsoon	baseline data included in updated IEE report	10,000 per sample (total four samples)  Transportation charges extra	PMU

Potential Impact	Parameter to be monitored	Proposed Locations	Method of Monitoring	Frequency of monitoring	Indicator of Compliance	Cost	Source of Funds
		to Hotel Jwalaji, HPTDC		or Post- monsoon)		(L.S. 20,000)	
Erosion control	Erosion control and re-vegetation plan covering construction phase	n/a	Checking of erosion control and re-vegetation plan	Upon finalization of detailed design	included in updated IEE report provided to contractor	already covered under PMU /PIU and Contractor	Contractor
Utilities	List and maps showing utilities to be shifted  Contingency plan for services disruption	n/a	Checking of list and maps showing utilities to be shifted  Checking of contingency plan for services disruption	Upon finalization of detailed design	included in updated IEE report provided to contractor	already covered under PMU/PIU /PMC/DSC and Contractor	PMU
Social and Cultural Resources	Chance find protocol	n/a	Checking of chance find protocol	Upon finalization of detailed design and during construction	included in updated IEE report copy and orientation provided to contractor	already covered under PMU/PIU and PMC/DSC	NA
Sites for construction work camps, areas for stockpile, storage and disposal	List of pre-approved sites for construction work camps, areas for stockpile, storage and disposal	sites for construction work camps, areas for stockpile, storage and disposal	Visual inspection	Upon approval of site/s	included in updated IEE report information provided to contractor		NA
	Waste management plan	n/a	Checking of waste	Upon finalization of	included in updated IEE report	already covered under	NA



Potential Impact	Parameter to be monitored	Proposed Locations	Method of Monitoring	Frequency of monitoring	Indicator of Compliance	Cost	Source of Funds
			management plan	detailed design	provided to contractor	PMU/PIU and PMC/DSC	
Sources of construction materials	Permits issued to quarries/sources of materials	n/a	Checking of permits	Upon submission by contractor	contractor's submission	already covered under PMU/PIU and PMC/DSC	NA
Access	Traffic management plan	n/a	Checking of traffic management plan as per detailed design (alignment, routes, etc)	Prior to start of civil works	contractor's submission	contractor's cost	Contractor
Occupational health and safety	Health and safety (H&S) plan	n/a	Checking of H&S plan	Prior to start of civil works	contractor's submission	contractor's cost	Contractor
Public consultations	- Disclosure records - Consultations	- locations of affected persons - locations of stakeholders	Documentation of (minutes of consultations, date/s, location/s, issue/s raised, photographs, etc.)	- During updating of IEE Report - During preparation of site- and activity-specific plans as per EMP - Prior to start of construction - During construction	included in updated IEE	already covered under PMU/PIU and PMC/DSC	NA
<b>2. Construction Phase</b>							
Erosion hazards	Erosion control and re-vegetation plan	- Construction zone - storage	Visual inspection	- daily visual inspection by contractor	- no erosion - erosion control in place	Contractor's cost	Contractor

Potential Impact	Parameter to be monitored	Proposed Locations	Method of Monitoring	Frequency of monitoring	Indicator of Compliance	Cost	Source of Funds
		areas		<ul style="list-style-type: none"> <li>supervisor and/or environment specialist</li> <li>- weekly visual inspection by DSC (more frequent during monsoon season and if corrective action is required)</li> <li>- random inspection by PMU, PIU, PMC and/or DSC</li> </ul>	<ul style="list-style-type: none"> <li>- measures in erosion control and re-vegetation plan implemented</li> </ul>		
Impacts on water quality	<ul style="list-style-type: none"> <li>- Any construction related materials</li> <li>- visible seepage of paints, oils, silts, etc. from storage areas</li> <li>- complaints related to water quality</li> </ul>	Adjacent bodies of water including drainages, canals/nallahs, etc.	Visual inspection	<ul style="list-style-type: none"> <li>- daily visual inspection by contractor supervisor and/or environment specialist</li> <li>- weekly visual inspection by DSC (more frequent during monsoon season and if corrective action is required)</li> <li>- random</li> </ul>	<ul style="list-style-type: none"> <li>- no visible change in pre-construction quality of adjacent bodies of water including drainages, canals/nallahs, etc.</li> <li>- no disposal and/or seepage to adjacent bodies of water including drainages, canals/nallahs, etc.</li> </ul>	Contractor's cost	Contractor

Potential Impact	Parameter to be monitored	Proposed Locations	Method of Monitoring	Frequency of monitoring	Indicator of Compliance	Cost	Source of Funds
				inspection by PMU, PIU, PMC and/or DSC			
Impacts on air quality	<ul style="list-style-type: none"> <li>- water spraying on stockpiles</li> <li>- excessive dust emissions</li> <li>- vehicles "pollution under control" certificate from Himachal Pradesh SPCB</li> <li>- CFE and CFO for hot mix plants, crushers, diesel generators, etc., if to be used in the project</li> <li>- complaints related to air quality</li> </ul>	<ul style="list-style-type: none"> <li>- Construction zone</li> <li>- Sensitive receptors site/s</li> </ul>	Visual inspection	<ul style="list-style-type: none"> <li>- daily visual inspection by contractor supervisor and/or environment specialist</li> <li>- weekly visual inspection by DSC (more frequent during summer season and if corrective action is required)</li> <li>- random inspection by PMU, PIU, PMC and/or DSC</li> </ul>	<ul style="list-style-type: none"> <li>- no excessive dust emissions</li> <li>- no complaints from sensitive receptors</li> <li>- Valid pollution under control certificate/s. CFE, and/or CFO</li> </ul>	Contractor's cost	Contractor
Noise and vibrations impacts	<ul style="list-style-type: none"> <li>- work schedule (limit to day time only in temple complexes and other important areas)</li> <li>- activities with the greatest potential to generate noise (conducted during periods of the day which will result in</li> </ul>	<ul style="list-style-type: none"> <li>- Construction zone</li> <li>- Sensitive receptors site/s</li> <li>- silence zone/s</li> </ul>	Visual inspection	<ul style="list-style-type: none"> <li>- daily visual inspection by contractor supervisor and/or environment specialist</li> <li>- weekly visual inspection by DSC (more frequent during machine</li> </ul>	<ul style="list-style-type: none"> <li>- no complaints from sensitive receptors</li> </ul>	Contractor's cost	Contractor

Potential Impact	Parameter to be monitored	Proposed Locations	Method of Monitoring	Frequency of monitoring	Indicator of Compliance	Cost	Source of Funds
	least disturbance) - vehicle silencers and noise-reducing mufflers - complaints related to noise and vibrations			operation and if corrective action is required) - random inspection by PMU, PIU, PMC and/or DSC			
Impacts on flora and fauna	- site induction and environmental awareness - number of trees cut - number of trees replanted - survival rate of trees planted	- construction zone - sites approved by Forest Department for replanting, if any	Visual inspection	- daily visual inspection by contractor supervisor and/or environment specialist - weekly visual inspection by DSC (more frequent during monsoon season and if corrective action is required) - random inspection by PMU, PIU, PMC and/or DSC	- all contractor's employees have undertaken site induction and environmental awareness prior to mobilization - approved trees to be cut - approved tree species for replantation	Contractor's cost	Contractor
Impacts on physical and cultural resources	- damage to structures/properties adjacent to construction zone - sign boards to inform nature and	- construction zone	Visual monitoring	- daily visual inspection by contractor supervisor and/or environment	- no damage to structures/properties adjacent to construction zone - sign boards understandable by	Contractor's cost	Contractor

Potential Impact	Parameter to be monitored	Proposed Locations	Method of Monitoring	Frequency of monitoring	Indicator of Compliance	Cost	Source of Funds
	<p>duration of construction works and contact numbers for concerns/complaints</p> <ul style="list-style-type: none"> <li>- number of workforce near the school/s and other sensitive receptor/s</li> <li>- housekeeping practices, wastes around construction zones</li> <li>- toilet facilities for workers</li> <li>- transportation routes and schedule</li> <li>- chance find procedure</li> </ul>			<p>specialist</p> <ul style="list-style-type: none"> <li>- weekly visual inspection by DSC (more frequent during monsoon season and if corrective action is required)</li> <li>- random inspection by PMU, PIU, PMC and/or DSC</li> </ul>	<p>local people</p> <ul style="list-style-type: none"> <li>- sufficient number of workforce near the school/s and other sensitive receptor/s</li> <li>- wastes managed according to waste management plan</li> <li>- clean and usable toilet facilities for workers</li> <li>- transportation routes and schedule followed</li> <li>- no complaints from sensitive receptors</li> <li>- chance find procedures followed, as necessary</li> </ul>		
Impact due to waste generation	<ul style="list-style-type: none"> <li>- provisions of the waste management plan</li> <li>- quantity of excavated soils</li> <li>- quantity of used oil and lubricants</li> <li>- excess construction materials, and solid waste (removed concrete, wood,</li> </ul>	- construction zone	Visual monitoring	<ul style="list-style-type: none"> <li>- daily visual inspection by contractor supervisor and/or environment specialist</li> <li>- weekly visual inspection by DSC (more frequent during monsoon</li> </ul>	<ul style="list-style-type: none"> <li>- wastes managed according to waste management plan</li> <li>- no complaints from sensitive receptors</li> </ul>	Contractor's cost	Contractor

Potential Impact	Parameter to be monitored	Proposed Locations	Method of Monitoring	Frequency of monitoring	Indicator of Compliance	Cost	Source of Funds
	trees and plants, packaging materials, empty containers, oils, lubricants, and other similar items)			season and if corrective action is required) - random inspection by PMU, PIU, PMC and/or DSC			
Impacts on occupational health and safety	<ul style="list-style-type: none"> <li>- IFC EHS Guidelines on Occupational Health and Safety</li> <li>- noise level and duration of exposure</li> <li>- PPEs, high visibility vests, hearing protection, etc.</li> <li>- conduct of H&amp;S orientation training</li> <li>- qualified first aider and equipped first aid stations</li> <li>- medical insurance coverage for workers</li> <li>- security in construction zone</li> <li>- potable drinking water supply</li> <li>- clean eating areas</li> <li>- conduct of visitor orientation</li> <li>- audible back-up</li> </ul>	- construction zone	<ul style="list-style-type: none"> <li>- visual monitoring</li> <li>- checking of records</li> </ul>	<ul style="list-style-type: none"> <li>- daily visual inspection by contractor supervisor and/or environment specialist</li> <li>- weekly visual inspection by DSC (more frequent during monsoon season and if corrective action is required)</li> <li>- random inspection by PMU, PIU, PMC and/or DSC</li> </ul>	<ul style="list-style-type: none"> <li>- conditions in H&amp;S plan</li> <li>- all workers oriented on H&amp;S plan</li> <li>- use of PPEs, etc at all times</li> <li>- max of 80 dBA and 8 hours exposure</li> <li>- visible first aid equipment and medical supplies</li> <li>- areas secured</li> <li>- trenches barricaded</li> <li>- adequate potable drinking water</li> <li>- clean eating areas away from hazardous or noxious substances</li> <li>- visible and understandable sign boards in construction zone</li> </ul>	Contractor's cost	Contractor

Potential Impact	Parameter to be monitored	Proposed Locations	Method of Monitoring	Frequency of monitoring	Indicator of Compliance	Cost	Source of Funds
	alarms for vehicles - sign boards in the construction zone - site accident records						
Impacts on socio-economic activities	- % of locals in labor force - complaints/grievances	- construction zone	checking of records	- random inspection by PMU, PIU, PMC and/or DSC - during complaints/grievance redressal	- least 50% of the labor force, or to the maximum extent, local persons within the 2-km immediate area if manpower is available - complaints/grievance addressed as per GRM	Contractor's cost	Contractor
<b>3. Post-construction Phase</b>							
Solid waste (debris, excavated soils, etc.)	- disturbed areas	- construction zone	visual inspection	upon completion of civil works prior to turn over to asset owner	- backfilled any excavation and trenches - reclaimed disturbed areas. - Re-established original grade and drainage pattern to the extent practicable. - stabilized all areas of disturbed vegetation using weed-free native shrubs, grasses, and trees - restored access	Contractor's cost	Contractor

Potential Impact	Parameter to be monitored	Proposed Locations	Method of Monitoring	Frequency of monitoring	Indicator of Compliance	Cost	Source of Funds
					<p>roads, staging areas, and temporary work areas.</p> <ul style="list-style-type: none"> <li>- restored roadside vegetation, if removed</li> <li>- removed all tools, equipment, barricades, signs, surplus materials, debris, and rubbish.</li> <li>- demolished buildings/structures not required for O&amp;M. - disposed in designated disposal sites.</li> </ul> <p>- success of re-vegetation and tree re-planting. Replaced all plants determined to be in an unhealthy condition.</p> <ul style="list-style-type: none"> <li>- documentation from PIU/DSC that construction zones have been restored.</li> </ul>	PMU cost	PMU



Table 11: Indicative EMP Budget

S.N.	Particulars	Stages	Unit	Total number	Rate (INR) *	Cost (INR)	Source of fund
<b>A. Monitoring Measures</b>							
1.	Air quality monitoring- 24 hourly (RSPM, SO <sub>2</sub> , NO <sub>2</sub> ) (Two Locations)	Prior to start of civil work & During- Construction  (Pre-monsoon or Post-monsoon)	Per sample	4	4,000	16,000	PMU
	Transportation & sampling cost will be given by HPPCB on site distance basis			Two times	L. S.	20,000	
2.	Noise Levels -Day time by noise meter (Two Locations)	Prior to start of civil work & During- Construction  (Pre-monsoon or Post-monsoon)	Per sample	4	10,000	40,000	
	Transportation & sampling cost will be given by HPPCB on site distance basis			Two times	L. S.	20,000	
<b>Sub- Total (A)</b>						<b>96,000</b>	
<b>B. Capacity Building – Training cost</b>							
1	Sensitization Workshop	Pre-Construction	L.S			1,50,000	PMU
2	Training Session I	Construction	L.S			1,50,000	
3	Training Session II	Construction	L.S			1,50,000	
<b>Sub -Total (B)</b>						<b>4,50,000</b>	
<b>Total (A+B) INR</b>						<b>5,46,000</b>	

\* Source: Rates provided from H.P. Pollution Control Board

**Annexure-7: Environmental Monitoring Checklist**

ADB LOAN NO.3223-IND

India: Infrastructure Development Investment Program for Tourism Himachal Pradesh

<b>ENVIRONMENTAL MONITORING CHECKLIST</b> (Note: To be filled in separately for each package)	
<b>Project no.</b>	
<b>Site location</b>	
<b>Date &amp; Time of visit</b>	
<b>Stage</b>	Pre-construction/Construction/Post construction phase

<b>Activity</b>	<b>Parameter monitored</b>	<b>Observation</b>		<b>Remark/s, if any</b>
		Yes	No	
<b>Activity 1: Signage &amp; display</b>	Is the content & design of project related signage on site found correct?			
	Is the signage/display appropriately located?			
	Is there proper cautionary & directional signage on site?			
	Has the surrounding population been informed about the nature and duration of the works?			Note: Give dates & method of communication
<b>Activity 2: Ambient Air Quality</b>	Is the emissions testing done as specified in the EMP?			Note: Give dates
	Is the testing record being maintained as specified?			
	Were there any fumes, bad odour or dust observed on site?			
	If yes, has this been communicated to the Contractor for him to take appropriate measures to redress the issue?			
	Is the dust suppression/sprinkling being done adequately/as prescribed in the EMP?			
	If not, has the contractor been informed to improve the situation?			
<b>Activity 3: Solid Waste Management &amp;</b>	Are litter bins provided on site for solid waste collection?			

Activity	Parameter monitored	Observation		Remark/s, if any
		Yes	No	
<b>Debris Disposal</b>	Is there any litter found lying around on site or nearby the site but originating from the site that creates unsafe or unhealthy working conditions (e.g. risk of slipping, falling over, or mosquito breeding)?			
	Is the frequency of waste removal from site adequate?			
	Is the mode of waste disposal appropriate e.g. recycling, composting, removal to MC bin etc.?			
	Are the debris/ muck from earthwork/excavation being properly disposed off in a pre-designated disposal site?			
	Is the demolition or construction waste being properly carried out & disposed off from site as specified in the EMP?			
<b>Activity 4: Water &amp; drainage</b>	Is the water quality testing done as specified in the EMP?			Note: Give dates
	If standards were exceeded: has this been communicated to the Contractor directly after the results were available, for him to take appropriate action?			
	Is the testing record being maintained as specified?			
	Is there any water-logging at site?			
<b>Activity 5: Noise</b>	Is the noise testing done as specified in the EMP?			Note: Give dates
	If standards were exceeded: has this been communicated to the Contractor directly after the results were available, for him to take appropriate action?			
	Is the testing record being maintained as specified?			
	Is the generator set being housed in an insulated enclosure to prevent noise pollution on site?			
	Is there any other undue noise activity or noise source observed on site?			

Activity	Parameter monitored	Observation		Remark/s, if any
		Yes	No	
<b>Activity 6: Site operations &amp; management</b>	Is the site being inspected by field staff on regular basis or as required by the EMP?			Note: Attach a copy of site inspection record
	Are the work areas properly barricaded or fenced?			
	Is there proper pedestrian and vehicular access to site?			
	Is the alternate mobility route/decongestion plan being followed on site, if applicable?			
	Is there proper storage arrangement for construction materials & supplies on site? e.g. preventing water logging or water pollution			
	Are the hazardous substances like fuel – (diesel, LPG, kerosene, oil) or paints or asbestos being properly stored and used on site/as specified in the EMP?			
	Are there adequate fire safety precautions being maintained onsite?			
	Are the machinery & other construction implements being maintained properly on site?			
	Are the vehicles carrying raw material/supplies and heavy equipment parked at the designated area within or near the site?			
	Is there any incidence of soil/water contamination from toxic substances observed on site? e.g. from oil spill or waste engine oil			Note: If yes, please specify date and describe incident, how was it resolved and how to avoid in future
Is the oil /waste oil disposal being done safely and properly <u>away</u> from site?			Note: Safe disposal should be done on sealed ground preventing leakage and run-off, away from direct sunlight and combustible products.	
<b>Activity 7: Occupational Health &amp; Safety</b>	Is the OHS plan being followed and record being maintained as specified?			

Activity	Parameter monitored	Observation		Remark/s, if any
		Yes	No	
	Is proper safety gear being used by workers on site? E.g. gloves, shoes, helmets & hearing protection equipment			
	Is there provision of safe drinking water on site?			
	Are there proper and clean toilets for workers on or near the site?			
	Is the provision for First Aid & Emergency Services available on site?			Note: Check the availability, accessibility and completeness of the first aid kit (e.g. are band-aids, disinfectant?).
	Is there any accident reported on site?			Note: If yes, please provide detailed report on any incident, accident, or fatality during the reporting period. Specify what and how it happened and what will be done to avoid a similar situation to occur again
	Is the accident record being properly maintained on site?			
	Is there any incidence of water borne disease or exposure to toxic substance on site?			
	Are disease preventive measures such as inoculation, sprays etc. being carried out on site?			
	Are there any labour camps established within or in close proximity to protected areas or heritage sites?			
<b>As per Loan <u>covenant 6 under Schedule 5</u> for HPIDIPT: "The State shall ensure that civil works Contracts under the projects follow all applicable labour laws of the Borrower and the State and that these further include provisions to the effect that Contractors</b>				
	... (i) carry out HIV/AIDS awareness programs for labour and disseminate information at worksites on			Note: Give dates & a brief report on compliance where applicable

Activity	Parameter monitored	Observation		Remark/s, if any
		Yes	No	
	risks of sexually transmitted diseases and HIV/AIDS as part of health and safety measures			
	... (ii) follow and implement all statutory provisions on labour, health, safety, welfare, sanitation and working conditions.			Note: Attach an undertaking from the Contractor
Concluding remarks	Environmental compliance of this sub-project: <input type="checkbox"/> Fully compliant <input type="checkbox"/> Nearly compliant <input type="checkbox"/> Partially compliant <input type="checkbox"/> Non-compliant			
Checked by				
Designation				

## Annexure-8

**HIMACHAL PRADESH –INFRASTRUCTURE DEVELOPMENT INVESTMENT PROGRAM  
FOR TOURISM**

**ENVIRONMENTAL MONITORING REPORT (Semi-annual)**

Period: -----

**Department of Tourism, Government of Himachal Pradesh**

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.

**ABBREVIATIONS**

**CONTENTS**

**PART A**

1. Introduction
2. Compliance status with National / State /Local statutory requirements is as follows:

S. No	Name of project	Stipulations	Compliance Status			Remark/Remedial Actions	Status
			Complied	Partially complied	Not complied		

3. Compliance status with the environmental covenants as stipulated in the Loan Agreement
4. Compliance status with the environmental management and monitoring plans and environmental assessment and review framework/ procedures, as stipulated in the environmental documentation as agreed with ADB.
5. Approach and methodology for environmental monitoring of the project
6. Follow-up actions and conclusions

## Part B–Environmental Monitoring Status Chart (Ref. IEE/EARF July 2010)

Name	IEE/EMP Components	Environmental Issues	Responsibility	Overall Status	Remarks
Package	Location impacts	1. Siting of facilities			
		2. Impact on archaeological remains			
		3. Other			
	Design 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			
	Pre-construction activities by the Contractor	1. Construction Camps			
		2. Defining of construction/work areas on ground			
		3. Circulation plan during construction			
		4. Site clearance activities			
		5. Drinking water availability			
		6. Identification of disposal sites			
		7. Waste mgt on site			
	Construction impacts	1. Improper stockpiling			
		2. Quarry/ Borrow pit operations			
		3. Stripping, stocking & preservation of top soil			
		4. Soil erosion			
5. Blasting					
6. Water pollution due to fuel/lubricants					
7. Generation of dust					
8. Emission from const <sup>n</sup> vehicles					
9. Noise from const <sup>n</sup> equipment					
10. Material handling					
11. Disposal of const <sup>n</sup> waste/debris					
12. Safety measures					
13. Risks force majeure					
14. Malaria risk					



Name	IEE/EMP Components	Environmental Issues	Responsibility	Overall Status	Remarks
		15. Chance archaeological finds			
		16. Religious structures			
	<b>O &amp; M impacts</b>	1. Environmental conditions			
		2. Uncontrolled tourism			
		3. Adequate drainage			
		4. Road safety			

The Contractors are complying with the EMP for each contract which will be attached as per **Annexure**.