



# Environmental Monitoring Report

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Project Number: 40648-034  
October 2017

Period: January 2017 – June 2017

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

Submitted by

Project Management Unit, Punjab Heritage and Tourism Board, Chandigarh

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**Asian Development Bank**

Mitesh Kr/VV

To,

The Country Director,  
India Resident Mission,  
Asian Development Bank,  
4, San Martín Marg, Chanakyapuri,  
New Delhi – 110021



No. PHTPB/IDIPT/2017/T3/34/3466-72

Dated: 29/9/17

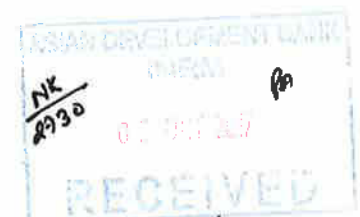
**Subject: Loan 3223 IND: Bi-annual Environment Monitoring Report (BEMR) for Tranche-3 for the bi-annual from January-June'2017**

The Bi-annual Environment Monitoring Report (BEMR) of Tranche-3 Loan No. 3223 for the bi-annual January-June'2017 is hereby enclosed seeking ADB's concurrence with this letter for your approval.

Addl. Project Director

CC:

1. PA to PD, IDIPT-PB
2. PA to APD, IDIPT-PB
3. FCS, IDIPT-PB
4. TL, PMC
5. TL, DSC
6. ESS, IDIPT-PB



Soft copy recd 29.09.17.

**INFRASTRUCTURE DEVELOPMENT INVESTMENT  
PROGRAM FOR TOURISM (IDIPT)**

**Biannual Environment Monitoring  
Progress Report – Tranche - 3**

**Bi-annual ending June – 2017**



**GOVERNMENT OF PUNJAB  
Department of Tourism**

**Jan - Jun 2017**

**PROJECT MANAGEMENT UNIT**

**PUNJAB HERITAGE and TOURISM PROMOTION BOARD**  
Plot No.3, Sector38A, Chandigarh – 160 036

**Department of Tourism  
GOVERNMENT OF PUNJAB**



**INFRASTRUCTURE DEVELOPMENT  
INVESTMENT PROGRAM FOR TOURISM (IDIPT)**

**ADB Loan No. 3223-IND**

**BIANNUAL ENVIRONMENT MONITORING PROGRESS REPORT**

**Tranche - 3**

**For**

**Bi-Annual Ending June – 2017**

**Project Management Unit**

**INFRASTRUCTURE DEVELOPMENT INVESTMENT PROGRAMME FOR TOURISM**

**PUNJAB HERITAGE and TOURISM PROMOTION BOARD**

**Plot No.3, Sector38A, Chandigarh – 160 036**

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## 1. INTRODUCTION

Infrastructure Development Investment Program for Tourism (IDIPT) has been proposed with a view to 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 of 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; and
- (iii) Physical infrastructure investments will be accompanied by 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. NEED FOR INITIAL ENVIRONMENTAL EXAMINATION (IEE)

As per the ADB's Safeguard Policy Statement (2009), the sub-projects in the Tranche – 3 are classified under category "B" since there are no significant impacts that are envisioned due to the implementation of these sub projects. Being category "B" projects, Initial Environmental Examination (IEE's) has been prepared for all sub projects. The IEE is based on a careful review of subproject DPR's, site plans and reports; field visits and secondary data to characterize the environment and in order to identify potential impacts; the interviews and meaningful consultations with primary and secondary stakeholders are also part of the IEE. The IEE's are included with project specific Environmental Management Plan (EMP's) with Environmental Monitoring Program.

## 3. PURPOSE OF ENVIRONMENTAL MONITORING PROGRAM

The purpose of Environmental Monitoring Program is to ensure the effective implementation of the recommended mitigation/ management measures (as indicated in the EMP) and to comply with the conditions of the environmental legislations, rules and regulations of India. It will be essential to develop an environmental management mechanism and procedures in the form of Environmental Monitoring Program.

## 4. OBJECTIVES OF CARRYING OUT ENVIRONMENTAL MONITORING PROGRAM

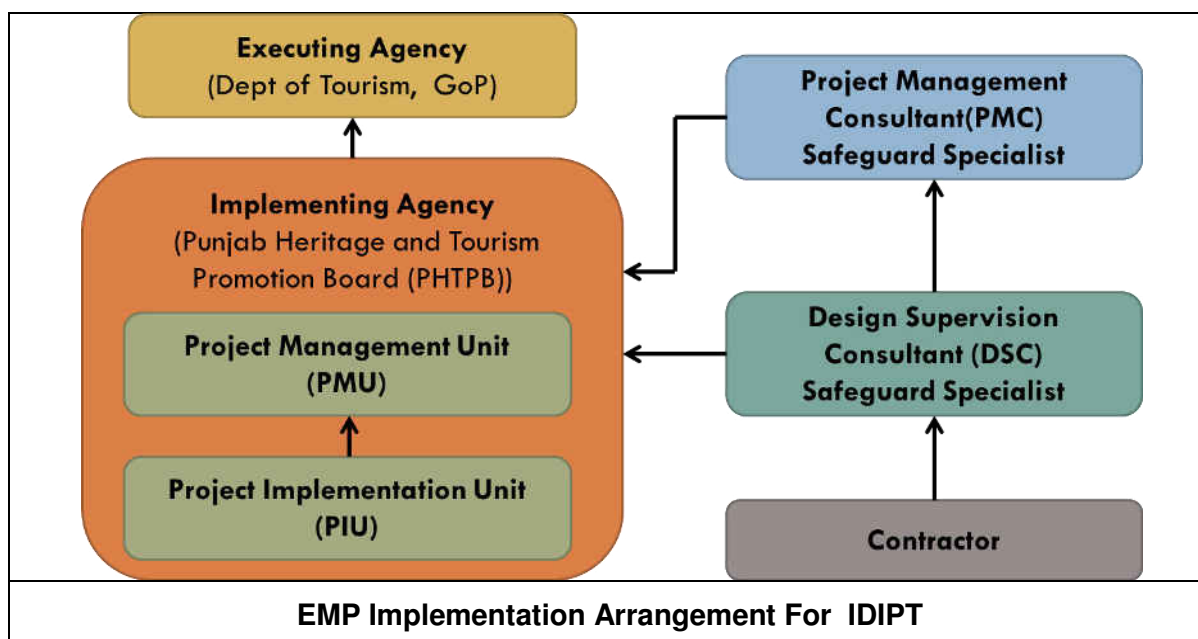
The objectives of carrying out the Environmental Monitoring Program include the following:

- To provide a database against which short or long term environmental impacts of the sub projects can be determined;
- To provide an early indication, environmental control measures or practices should not fail to achieve the acceptable standards;
- To monitor the performance of the sub projects and the effectiveness of mitigation measures;
- To verify the environmental impacts predicted during the IEE studies;
- To determine compliance with regulatory requirements, standards and government policies;
- To take remedial action if unexpected problems or unacceptable impacts arise

## 5. EMP IMPLEMENTATION ARRANGEMENT FOR IDIPT, PUNJAB

The following agencies will be responsible for EMP implementation:

- Department of Tourism, Government of Punjab (GoP) is the executing agency responsible for overall management, coordination, and execution of all activities funded under the loan. Punjab Heritage and Tourism Promotion Board (PHTPB) is the implementing agency responsible for coordination procurement and construction of the project.
- Project Management Unit (PMU) is set up in Chandigarh to coordinate the overall execution.
- Project Management Consultant (PMC) in Chandigarh provides assistance to PMU in execution as well as in procurement and ensures technical quality of design and construction.
- Project Implementation Unit's (PIUs) are established in Amritsar and Chandigarh. These PIU's will look into the progress and coordination of day to day construction works with the assistance from respective DSC teams.
- Design Supervision Consultants (DSC), will prepare the detailed project report (DPR) of the subprojects and will carry out construction supervision during project implementation. Their responsibility will also include updating the IEE based on detailed design and EMP implementation supervision;
- The Contractor will be responsible for execution of all construction works. The Contractor will work under the guidance of the PIUs and DSCs in Amritsar and Chandigarh. The EMP mitigation measures relevant to construction phase will also be implemented by the contractor.



## 6. CONSTRUCTION ACTIVITIES, PROJECT PROGRESS AND ENVIRONMENTAL MONITORING STATUS

The site specific construction activities, project progress and environmental monitoring program status for each of the sub projects has been detailed in the following sections

## I. PACKAGE 3-12/02 - IMPERIAL HIGHWAY HERITAGE CONSERVATION AND VISITOR FACILITY DEVELOPMENT AT EASTERN CIRCUIT

### a. Implementation status:

S. No.	Sub Project Component/ Packages	Details of work under Package	Commencement of Civil Works	Expected date of Completion	Physical Progress till date	Type of Work presently Conducted	Remarks
1	<b>Package 3-12/02</b>						
	<b>Lot-1:</b> Conservation of Aam Khas Bagh in Fatehgarh Sahib, Patiala	<ul style="list-style-type: none"> <li>• Vegetation clearance</li> <li>• Consolidation and reconstruction of missing brick masonry</li> <li>• Stitching of structural cracks/filling</li> <li>• Consolidation of lime concrete flooring and demolition of ips flooring</li> <li>• Removal dismantling of modular brick in fill</li> <li>• Landscaping and site development</li> <li>• Cleaning the exposed surface.</li> <li>• Plastering the masonry surface with lime plaster.</li> <li>• Repairing the terracing (gateways), sloping chajjas (bastions), brick brackets (bastions and enclosure walls)</li> <li>• Provision of boundary wall on the eastern, western, and southern edge of the garden complex.</li> <li>• Provision of the entrance gate and</li> </ul>	25 July 2015	24 Jan 2017 (Extended upto 30-June 2017)	40.0 %	<ul style="list-style-type: none"> <li>• Naughara inner sides plan plaster and stucco work</li> <li>• Mehtabi bagh inner side khamira work</li> <li>• Octagonal room brick work</li> </ul>	The contractor is advised to expedite the work as the work progress is slow



		<p>guard rooms for security purpose.</p> <ul style="list-style-type: none"> <li>• Adaptive reuse of structure and provision of interpretation center and craft centre at Maulsari</li> <li>• Provision of tourist reception centre at Maulsari.</li> <li>• Reconstruction of original brick work.</li> </ul>					
	<b>Lot-2:</b> Conservation of Tombs and Rauza Sharif in Fatehgarh Sahib	<ul style="list-style-type: none"> <li>• Conservation and Restoration of six heritage buildings including interior decorative ceilings.</li> <li>• Construction of toilet complexes and baths at Dargah complex</li> <li>• Paving of walkway towards guest rooms &amp; site development works.</li> <li>• Provision of internal signage (having uniformity in design) for the Dargah complex</li> </ul>	30 Oct 2015	29 Apr 2017 (Extended upto 29 Aug 2017)	82.0 %	<ul style="list-style-type: none"> <li>• Toilet block inner side wall tile fixing work</li> <li>• Sewer pipe laying and manhole construction work</li> <li>• Pavers block fixing work</li> <li>• Kota stone flooring work</li> </ul>	The contractor is advised to expedite the work as the work progress is slow
	<b>Lot-2:</b> Conservation of Tomb of Raffudin	<ul style="list-style-type: none"> <li>• Adopting decay mechanisms in the buildings and precinct components</li> <li>• Forming/ making the missing damaged elements/ features that forms an integral part of historical design</li> <li>• Conserving the original built fabric and decorative features of structures.</li> <li>• Conserving the tangible and intangible aspects of the precinct</li> </ul>	30 Oct 2015	29 Apr 2017 (Extended upto 29 Aug 2017)	44.0 %	<ul style="list-style-type: none"> <li>• Brick work for planter wall, drain and boundary wall work</li> <li>• Outer wall lime plaster work</li> <li>• Brick tile around edge work</li> <li>• Outer side grave consolidation work &amp; plaster work</li> </ul>	The contractor is advised to expedite the work as the work progress is slow
	<b>Lot-2:</b> Conservation of Tomb of Alfasani	<ul style="list-style-type: none"> <li>• Landscaping Site Development</li> </ul>	30 Oct 2015	29 Apr 2017 (Extended upto 29 Aug 2017)	46.0 %	<ul style="list-style-type: none"> <li>• Inner side Consolidation work</li> <li>• Repair and brick work at Tomb of Alfsani</li> </ul>	The contractor is advised to expedite the work as the

						<ul style="list-style-type: none"> <li>• Stair case side wall plaster work</li> <li>• Outer wall lime plaster work</li> </ul>	work progress is slow
	<b>Lot-2:</b> Conservation of Tomb of Bibi Taj		30 Oct 2015	29 Apr 2017 (Extended upto 29 Aug 2017)	64.0 %	<ul style="list-style-type: none"> <li>• Pathway work</li> <li>• Terrace Consolidation work</li> <li>• Filter media work at Bibi Taj Tomb</li> <li>• Limes plaster work</li> <li>• Brick tile on edge and stair brick work</li> </ul>	The contractor is advised to expedite the work as the work progress is slow

**b. Compliance status with Government Environmental Regulations (as indicated in the IEE):**

Package No	Subproject Component/Packages	Clearance/ Approval required	Current Status
Package 3-12/02	Lot-1: Conservation of Aam Khas Bagh in Fatehgarh Sahib, Patiala	Disposal plan for extraneous material is required.	Disposal of earth is being done as per the plan. If the earth material is found suitable for construction purposes, then it is reused to the extent possible. The excess earth materials and materials that are not suitable for construction purposes are disposed off in the identified/ designated disposal locations.
	Lot-2: (i) Conservation of Tombs and Rauza Sharif in Fatehgarh Sahib (ii) Conservation of Tomb of, Raffudin (iii) Conservation of Tomb of Alfasani (iv) Conservation of Tomb of Bibi Taj		
	Other Environmental Regulations		
		Tree cutting permissions	Tree cutting is not envisaged and hence tree cutting permission is not required
		Sourcing of construction materials (quarry and borrow materials)	The quantity of the construction materials required for this sub project is very less and it has been sourced from local authorized (licensed) vendors.
	The EIA notification, 2006 (and its	Not applicable (not in the list of projects, which requires Environmental Clearance)	

Package No	Subproject Component/Packages	Clearance/ Approval required	Current Status
		subsequent amendments)	
		Water (Prevention and control of pollution) Act, 1974 and Air (prevention and control of pollution) Act, 1981	Not applicable, since there is no requirement for setting up of hot mix plants, wet mix plants, stone crushers and diesel generators.
		The Wildlife Protection Act, 1972, amended in 2003 and 2006	Not applicable, as there are no ecological sensitive areas located within or in the surroundings of the subproject site
		The Forest Conservation Act, 1980 and its subsequent amendments	Not applicable, as there are no forest areas located within or in the surroundings/ vicinity of the subproject site
		The Ancient Monuments and Archaeological Sites and Remains Act, 1958, and the rules, 1959	This act is applicable for Lot – 1 for performing conservation work in Aam Khas Bagh. As per the Act a NoC/ clearance has been obtained from State Archeological Department (refer <b>Annexure -1</b> )

**c. Compliance status with Loan Covenant:**

Package no	Environmental Safeguard related Loan Covenants	Compliance Status
<p><b>Package 3-12/02:</b> Imperial Highway Heritage Conservation and Visitor Facility Development.</p> <p>Lot-1: Conservation of Aam Khas Bagh in Fatehgarh Sahib</p> <p>Lot-2:</p> <p>(i) Conservation of Tombs and Rauza Sharif in Fatehgarh Sahib</p> <p>(ii) Conservation of Tomb of, Raffudin</p> <p>(iii) Conservation of Tomb of Alfasani</p> <p>(iv) Conservation of Tomb of Bibi Taj</p>	<p>The Project is undertaken, and the Project facilities are designed, constructed, implemented, operated, and maintained, in accordance with the Borrower's applicable laws and regulations; ADB's Safeguard Policy Statement (2009) and the EARF;</p> <p>The IEEs and EMPs are implemented in accordance with their terms ;</p> <p>In the event that any unanticipated adverse environmental impact occurs or a mitigation measure under an IEE or EMP does not have the desired effect.</p>	<p>All ADB safeguards are being followed.</p> <p>IEE and EMP are being implemented in accordance with the terms of ADB.</p> <p>No unanticipated adverse environmental impact has occurred.</p>

Package no	Environmental Safeguard related Loan Covenants	Compliance Status
	<p>this is reported to ADB, and remedial actions are taken to mitigate the relevant impacts in consultation with the affected persons and ADB;</p> <p>Any changes to the location, land alignment, or environmental impacts on account of detailed designs of the Project facilities are mutually agreed between the Borrower and ADB, and are consistent with the eligibility criteria set forth in Schedule 4 to the FFA;</p> <p>The IEEs and EMPs are updated, as necessary, during the course of Project implementation, and submitted to ADB for clearance;</p> <p>The Works contractors are contractually obliged to implement the IEEs and the EMPs, and report on their implementation on a regular basis, along with any deviation; and</p> <p>Reports on the implementation of the IEEs and the EMPs are submitted to ADB on a biannual basis.</p>	<p>All the changes are consistent with the eligibility criteria set forth in Schedule 4 to the FFA.</p> <p>The IEE and EMP will be changed as necessary.</p> <p>Regular environmental monitoring is being performed and the report will be submitted to ADB on bi-annual basis.</p>

**d. Compliance status with Subproject Selection Criteria:**

S No	Subproject Selection Criteria	Lot-1 Conservation of Aam Khas Bagh in Fatehgarh Sahib	Lot – 2. Conservation of Tombs and Rauza Sharif in Fatehgarh Sahib	Lot – 2 (i) Conservation of Tomb of Raffudin (ii) Conservation of Tomb of Alfasani (iii) Conservation of Tomb of Bibi Taj
1	Site Description	The project is within the area available in Aam Khas Bagh in Fatehgarh Sahib.	The project is within the area available in Rauza Sharif in Fatehgarh Sahib.	The project sites are within the tomb premises

S No	Subproject Selection Criteria	Lot-1 Conservation of Aam Khas Bagh in Fatehgarh Sahib	Lot – 2.Conservation of Tombs and Rauza Sharif in Fatehgarh Sahib	Lot – 2 (i) Conservation of Tomb of Raffudin (ii) Conservation of Tomb of Alfasani (iii) Conservation of Tomb of Bibi Taj
2	Description of proposed improvements	<p>Conservation works including</p> <ul style="list-style-type: none"> <li>• Vegetation clearance</li> <li>• Consolidation and reconstruction of missing brick masonry</li> <li>• Consolidation of lime concrete flooring</li> <li>• Landscaping and site development</li> <li>• Plastering the masonry surface with lime plaster.</li> <li>• Repairing the terracing, sloping chajjas and brick brackets</li> <li>• Provision of boundary wall.</li> <li>• Provision of the entrance gate and guard rooms for security purpose.</li> <li>• Adaptive reuse of structure and provision of interpretation center and craft centre</li> <li>• Provision of tourist reception centre.</li> <li>• Reconstruction of original brick work.</li> </ul>	<ul style="list-style-type: none"> <li>• Conservation of Tombs and Rauza Sharif in Fatehgarh Sahib</li> <li>• Conservation and Restoration of six heritage buildings</li> <li>• Construction of toilet complexes</li> <li>• Paving of walkway</li> <li>• Provision of internal signage</li> </ul>	<ul style="list-style-type: none"> <li>• Adopting decay mechanisms in the buildings and precinct components</li> <li>• Forming/ making the missing damaged elements/features that forms an integral part of historical design</li> <li>• Conserving the original built fabric and decorative features of structures.</li> <li>• Conserving the tangible and intangible aspects of the precinct</li> <li>• Landscaping Site Development</li> </ul>
3	Design Criteria	Careful selection of material, the result of interventions is unobtrusive and will be integral part of the overall ambience.	Careful selection of material, the result of interventions is unobtrusive and will be integral part of the overall ambience.	Careful selection of material, the result of interventions is unobtrusive and will be integral part of the overall ambience.

**e. Compliance status with EMMP as per IEE/EMP:**

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
1. Efficient drainage of site	Work being carried out as per plan	Satisfactory	Continuous monitoring is required
2. Exposed steel and concrete structures to be avoided.	Designs proposed are in accordance with architectural character of place.	Satisfactory	Exposed steel and concrete shall be barricaded and covered.
3. Construction work area to be demarcated on ground	Construction work area is barricaded and separated from labour settlements	Satisfactory	Continuous monitoring is required
4. Consideration to be given for material storage at construction sites.	Adequate space allotted for material storage	Satisfactory	Materials are being properly stacked, covered and stored.
5. Safe disposal of extraneous wastes to be ensured in the pre-identified disposal locations.	Work being carried out as per plan	Satisfactory	Contractors have been directed to ensure proper disposal of waste at site.
6. Excavated earth to be reused in the ongoing project site.	To the extent possible the excavated earth is reused.	Satisfactory	Excavated earth is being covered and stored properly
7. The contractor to take precaution to reduce the level of dust at construction sites.	Sprinkling of water is being done at regular intervals. Construction material is covered.	Satisfactory	All construction material to be covered properly from all the sides.
8. The waste generated will be reused in construction activities, either as a fill material or based on its suitability of reuse to maximum extent.	As per the mitigation measures, the generated construction waste is being utilized to the extent possible.	Satisfactory (Photographs are attached as <b>Annexure -2</b> ).	Continuous monitoring is required
9. All workers employed on mixing asphaltic material, cement, lime mortars, concrete etc., will be provided with protective footwear and protective goggles.	All workers have been provided with PPEs.	Satisfactory	Continuous monitoring is being carried out to ensure all the workers are using PPE's
10. The Contractor will, at his own expense, conform to all anti-malaria instructions given to him by the Engineer	Work being carried out as per plan	Satisfactory	Continuous monitoring is required

#### f. Environmental Quality Monitoring

#### Noise (Analysis results enclosed in the Annexure - 3)

Location	Value		Standards
	Day	Night	
(i) Conservation of Tomb of Alfasani	43.1 dB (A)	35.6 dB (A)	CPCB noise standard for commercial area is 65 dB (A) for day time and 55 dB (A) for night time.
(ii) Conservation of Tomb of Bibi Taj	44.6 dB (A)	35.9 dB (A)	
(iii) Near old hotel	53.0 dB (A)	39.0 dB (A)	
(iv) Near Nav Ghar	52.0 dB (A)	40.0 dB (A)	
(v) Near Mehtabi Bhag	51.0 dB (A)	40.0 dB (A)	
The observed values are found to be less than the prescribed limits in comparison with the CPCB Noise Quality Standard for <b>commercial area/ zone</b> .			

### Ambient Air Monitoring (Analysis results enclosed in the Annexure - 3)

Location	Parameter	Value	Standard value
(i) Conservation of Tomb of Alfasani	PM <sub>10</sub> , µg/m <sup>3</sup>	62.1	100.0
	PM <sub>2.5</sub> , µg/m <sup>3</sup>	34.9	60.0
	Oxides of Sulphur, µg/m <sup>3</sup>	9.9	80.0
	Oxides of Nitrogen, µg/m <sup>3</sup>	24.5	80.0
	Carbon monoxide, mg/m <sup>3</sup>	0.71	4.0
(ii) Conservation of Tomb of Bibi Taj	PM <sub>10</sub> , µg/m <sup>3</sup>	64.3	
	PM <sub>2.5</sub> , µg/m <sup>3</sup>	35.7	
	Oxides of Sulphur, µg/m <sup>3</sup>	8.1	
	Oxides of Nitrogen, µg/m <sup>3</sup>	28.6	
	Carbon monoxide, mg/m <sup>3</sup>	0.75	
(iii) Near NavGhar	PM <sub>10</sub> , µg/m <sup>3</sup>	62.5	
	PM <sub>2.5</sub> , µg/m <sup>3</sup>	29.4	
	Oxides of Sulphur, µg/m <sup>3</sup>	9.2	
	Oxides of Nitrogen, µg/m <sup>3</sup>	20.8	
	Carbon monoxide, mg/m <sup>3</sup>	BDL	
The observed AAQ values are within the regulatory standards indicating the construction activities does not have any impact on the existing air quality.			

### g. Grievance Record and Action Taken

Date	Subproject	Problem related to	Received through	Description	Status
	<b>Package 3-12/02:</b> Imperial Highway Heritage Conservation and Visitor Facility Development	None	NA	NA	No Grievances have been recorded so far.



## II. PACKAGE 4/3: ECO-TOURISM DEVELOPMENT AT ROPAR AND HARIKE WETLANDS (CIVIL WORKS)

### a. Implementation status

S No	Sub Project Component/ Packages	Details of work under Package	Commencement of Civil Works	Expected date of Completion	Physical Progress till	Type of Work presently Conducted	Remarks
1.	<b>Package 4/3: Eco-tourism Development at Ropar and Harike Wetlands (Civil Works)</b>	<p><b><u>At Harike Wetland</u></b></p> <ul style="list-style-type: none"> <li>• Provision of nature trail of about 6.5 km</li> <li>• Provision of a short trail of about 600 m ending at notch point.</li> <li>• Provision for vehicle parking and reception complex</li> <li>• Provision of public amenities</li> <li>• Provision of internal sign/ information boards of uniform design</li> <li>• Upgrading the old building at Churian check post to an interpretation center.</li> <li>• Provision of boating facilities</li> <li>• Landscaping outside core protected area</li> </ul> <p><b><u>At Ropar Wetland</u></b></p> <ul style="list-style-type: none"> <li>• Provision of bird watch towers and bird hides</li> <li>• Provision of nature trail of about 800 m</li> <li>• Provision of public amenities</li> <li>• Upgrade of existing interpretation center</li> <li>• Provision of sign/ information boards of uniform design</li> </ul>	19 Aug 2015	18 Feb 2017(Extended upto 29 <sup>th</sup> Aug 2017)	39.0%	<ul style="list-style-type: none"> <li>• RMB toilet block partition wall under progress.</li> <li>• RMB kitchen &amp; cafeteria joint pipe M.S. work under progress.</li> <li>• Noise point observation deck primer work under progress.</li> </ul>	The contractor is advised to expedite the work as the work progress is slow
					40%	<ul style="list-style-type: none"> <li>• Column casting &amp; shuttering of board walk work under progress</li> <li>• Interpretation center work</li> <li>• Landscaping work</li> </ul>	
					75%		



		<b><u>Provision of parking facilities Ropar Wetland Connectivity</u></b> <ul style="list-style-type: none"> <li>Strengthening is proposed at 0/00 km to 0/945 km (0.945 km) and 6/115 km to 16/245 (10.13 km)</li> <li>Widening and strengthening is proposed at 0/945km to 6/115 km (5.17km)</li> </ul>				<ul style="list-style-type: none"> <li>Bitumen works.</li> <li>Work of strengthening of shoulder</li> <li>Road works</li> </ul>	
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**b. Compliance status with Government Environmental Regulations (as indicated in the IEE):**

Package No	Sub Project Component/Packages	Clearance/ Approval required	Current Status
<b>Package 4/3:</b> Eco-tourism Development at Ropar and Harike Wetlands (Civil Works)	Eco-tourism Development at Ropar and Harike Wetlands (Civil Works)	Disposal plan for extraneous material is required	Disposal of extraneous material is being done as per the plan
	<b>Other Environmental Regulations</b>		
		Tree cutting permissions	Tree cutting is not envisaged and hence tree cutting permission is not required
		Sourcing of construction materials (quarry and borrow materials)	The quantity of the construction materials required for this sub project is very less and it has been sourced from local authorized (licensed) vendors.
		The EIA notification, 2006 (and its subsequent amendments)	Not applicable (not in the list of projects, which requires Environmental Clearance)
		Water (Prevention and control of pollution) Act, 1974 and Air (prevention and control of pollution) Act, 1981	Not applicable, since there are no requirement for setting up of hot mix plants, wet mix plants, stone crushers and diesel generators.
		The Wildlife Protection Act, 1972, amended in 2003 and 2006	As per section 28 (Grant of permit) of Wildlife Protection Act 1972, permission/ NoC from the Chief Wildlife warden has been obtained (Refer <b>Annexure4</b> )

Package No	Sub Project Component/Packages	Clearance/ Approval required	Current Status
		The Forest Conservation Act, 1980 and its subsequent amendments	Not applicable, as there are no forest areas located within or in the surroundings of the project site
		The Ancient Monuments and Archaeological Sites and Remains Act, 1958, and the rules, 1959	Not applicable, as there are no monuments located within or in the vicinity of the subproject site.
		Wetland Rules, 2010	The proposed subproject interventions are as per the approved Comprehensive Management Action Plan (2013-18) for Conservation of Ropar and Harike Wetlands. However, as per the section 4(2) (restrictions on activities within Wetlands) of the wetland rules, 2010, this subproject mandates clearance from Chief Wildlife Warden of Punjab and accordingly the same has been obtained (Refer <b>Annexure 4</b> )

**c. Compliance status with Loan Covenant:**

Package No	Environmental Safeguard related Loan Covenants	Compliance Status
<b>Package 4/3:</b> Eco-tourism Development at Ropar and Harike Wetlands (Civil Works)	<p>The Project is undertaken, and the Project facilities are designed, constructed, implemented, operated, and maintained, in accordance with the Borrower's applicable laws and regulations; ADB's Safeguard Policy Statement (2009) and the EARF;</p> <p>The IEEs and EMPs are implemented in accordance with their terms ;</p> <p>In the event that any unanticipated adverse environmental impact occurs or a mitigation measure under an IEE or EMP does not have the desired effect, this is reported to ADB, and remedial actions are</p>	<p>All ADB safeguards are being followed.</p> <p>IEE and EMP are being implemented in accordance with the terms of ADB.</p> <p>No unanticipated adverse environmental impact has occurred</p>

Package No	Environmental Safeguard related Loan Covenants	Compliance Status
	<p>taken to mitigate the relevant impacts in consultation with the affected persons and ADB;</p> <p>Any changes to the location, land alignment, or environmental impacts on account of detailed designs of the Project facilities are mutually agreed between the Borrower and ADB, and are consistent with the eligibility criteria set forth in Schedule 4 to the FFA;</p> <p>The IEEs and EMPs are updated, as necessary, during the course of Project implementation, and submitted to ADB for clearance;</p> <p>The Works contractors are contractually obliged to implement the IEEs and the EMPs, and report on their implementation on a regular basis, along with any deviation; and</p> <p>Reports on the implementation of the IEEs and the EMPs are submitted to ADB on a biannual basis.</p>	<p>All the changes are consistent with the eligibility criteria set forth in Schedule 4 to the FFA.</p> <p>The IEE and EMP will be changed as necessary.</p> <p>Regular environmental monitoring is being performed and the report will be submitted to ADB on bi-annual basis.</p>

**d. Compliance status with Subproject Selection Criteria:**

S. No.	Subproject Selection Criteria	Package 4/3: Eco-tourism Development at Ropar and Harike Wetlands (Civil Works)
1.	Site Description	The sub project is within the area available in Harike Wetland, Ropar.
2.	Description of proposed improvements	<p><b><u>At Harike Wetland</u></b></p> <ul style="list-style-type: none"> <li>• Provision of nature trail of about 6.5 km</li> <li>• Provision of a short trail of about 600 m ending at notch point.</li> <li>• Provision for vehicle parking and reception complex</li> <li>• Provision of public amenities</li> <li>• Provision of internal sign/ information boards of uniform design</li> <li>• Upgrading the old building at Churian check post to an interpretation center.</li> <li>• Provision of boating facilities</li> <li>• Landscaping outside core protected area</li> </ul> <p><b><u>At Ropar Wetland</u></b></p> <ul style="list-style-type: none"> <li>• Provision of bird watch towers and bird hides</li> <li>• Provision of nature trail of about 800 m</li> <li>• Provision of public amenities</li> <li>• Upgrade of existing interpretation center</li> </ul>

S. No.	Subproject Criteria	Selection	Package 4/3: Eco-tourism Development at Ropar and Harike Wetlands (Civil Works)
			<ul style="list-style-type: none"> <li>Provision of sign/ information boards of uniform design</li> </ul> <p><b><u>Provision of parking facilities at Ropar Wetland Connectivity</u></b></p> <ul style="list-style-type: none"> <li>Strengthening is proposed at 0/00 km to 0/945 km (0.945 km) and 6/115 km to 16/245 (10.13 km)</li> </ul> <p>Widening and strengthening is proposed at 0/945km to 6/115 km (5.17km)</p>
3.	Design Criteria		Careful selection of material, the result of interventions is unobtrusive and will be integral part of the overall ambience.

**e. Compliance status with EMMP as per IEE/EMP for separate Packages:**

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
1. Efficient drainage of site	Yes, work being carried out as per plan	Satisfactory	Continuous monitoring is required.
2. Exposed steel and concrete structures to be avoided.	Designs proposed are in accordance to architectural character of place.	Satisfactory	Exposed steel and concrete are barricaded to avoid any safety hazard.
3. Construction work area to be demarcated on ground	Construction work area is being barricaded and separated from tourists	Satisfactory	Continuous monitoring is required.
4. Consideration to be given for material storage at construction sites.	Adequate space allotted for material storage	Satisfactory	Material is being properly stacked, covered and stored.
5. Safe disposal of extraneous wastes to be ensured in the pre-identified disposal locations.	Work being carried out as per mitigation measures	Satisfactory	All waste material at sites will be properly disposed.
6. The contractor to take precaution to reduce the level of dust at construction sites.	Sprinkling of water is being done at regular intervals. Construction material is covered.	Satisfactory	All construction material to be covered properly from all the sides.
7. The waste generated will be reused in construction activities, either as a fill material or based on its suitability of reuse to maximum extent.	As per the mitigation measures, the generated construction waste has been utilised to the extent possible	Satisfactory	Continuous monitoring is required
8. All workers employed on mixing asphaltic material, cement, lime mortars, concrete etc., will be provided with	All workers are being provided with PPEs to avoid any safety and health hazards.	Satisfactory (Photographs are attached as <b>Annexure -2</b> ).	Continuous monitoring is required

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
protective footwear and protective goggles.			
9.The Contractor will, at his own expense, conform to all anti-malaria instructions given to him by the Engineer	Work being carried out as per plan	Satisfactory	Contractors have been instructed to implement all measures to avoid mosquito breeding in the labour camps.

#### f. Environmental Quality Monitoring

##### Noise (Analysis results enclosed in the Annexure- 5)

Location	Value		Standards
	Day	Night	
Ropar Wetland Harike Wetland	55.8 dB (A) 58.5 dB (A)	48.7 dB (A) 49.3 dB (A)	CPCB noise standard for silent zone is 50 dB (A) for day time and 40 dB (A) for night time.

The observed values are slightly higher in comparison with the CPCB Noise Quality Standard for **Silent zone**.The Contractor has been advised to adopt management measures (including using construction machineries with lower noise emissions; avoiding metal on metal impacts and fitting silencers to generators and vehicle exhausts) in order to contain the noise levels generated during project construction.

##### Ambient Air Monitoring (Analysis results enclosed in the Annexure - 5)

Location	Parameter	Value	Standard value
Ropar Wetland	PM <sub>10</sub> , µg/m <sup>3</sup>	86.0	100.0
	PM <sub>2.5</sub> , µg/m <sup>3</sup>	39.0	80.0
	Oxides of Sulphur, µg/m <sup>3</sup>	6.0	80.0
	Oxides of Nitrogen, µg/m <sup>3</sup>	9.0	
	Carbon monoxide, mg/m <sup>3</sup>	BDL	2.0
Harike Wetland	PM <sub>10</sub> , µg/m <sup>3</sup>	79.0	
	PM <sub>2.5</sub> , µg/m <sup>3</sup>	36.0	
	Oxides of Sulphur, µg/m <sup>3</sup>	7.0	
	Oxides of Nitrogen, µg/m <sup>3</sup>	10	
	Carbon monoxide, mg/m <sup>3</sup>	BDL	

The observed AAQ values are within the regulatory standards indicating the construction activities does not have any impact on the existing air quality.

#### g. Grievance Record and Action Taken

Date	Subproject	Problem related to	Received through	Description	Status
	Package 4/3: Eco-tourism Development at Ropar and Harike Wetlands (Civil Works)	None	NA	NA	No Grievances have been recorded so far.

### III. PACKAGE 5/4: ECO-TOURISM DEVELOPMENT OF WILDLIFE ZOO

#### a. Implementation status

S. No.	Sub Project Component/ Packages	Details of work under Package	Commence ment of Civil Works	Expected date of Completion	Physical Progress till date	Type of Work presently Conducted	Remarks
1.	Package 5/4:  Eco-tourism Development of Wildlife Zoo	<ul style="list-style-type: none"> <li>• Construction of Thematic Zoo Entrance including Lake Landscaping</li> <li>• Construction of modern Interpretation centre</li> <li>• Creation of Zoological Education Park</li> <li>• Creation/Up-gradation of visitors convenience, shelters and rest areas inside Zoological park</li> <li>• Upgradation of primary and secondary travel paths to various zoo attraction</li> <li>• Construction of Tourist Facilities centre at the zoo main entrance gate</li> <li>• Strengthening of zoo waste disposal system including relaying of the sewer network of the zoo, installation of Sewerage Treatment Plant (STP)</li> <li>• Capacity building for tourism development and management</li> </ul>	19 Aug 2015	18 Feb 2017 (Extended upto 30 <sup>th</sup> Sep 2017)	47.0%	<ul style="list-style-type: none"> <li>• Stone pitching work near water body</li> <li>• Landscaping work</li> <li>• Visitor shelter granite stone fixing work</li> <li>• Main gate stone masonry wall work</li> <li>• Interpretation center building side platform paver block fixing work</li> <li>• Ticket counter &amp; food plaza: false ceiling work</li> </ul>	<p>Contractor is advised to expedite the work progress</p> <p>The STP component was dropped from the package, due to unavailability of funds. The minutes of the meeting reference is given in the <b>Annexure 6</b></p>

#### b. Compliance status with Government Environmental Regulations (as indicated in the IEE):

Package No	Sub Project Component/Packages	Clearance/ Approval required	Current Status
Package 5/4	Eco-tourism Development of Wildlife Zoo	Disposal plan for extraneous material is required.	Disposal of earth is being done as per the plan.
<b>Other Environmental Regulations</b>			
		Tree cutting permissions	Tree cutting is not envisaged and hence tree cutting permission is not required.
		Sourcing of construction materials (quarry and borrow materials)	The quantity of the construction materials required for this sub project is very less and it has been sourced from local authorized (licensed) vendors.
		The EIA notification, 2006 (and its subsequent amendments)	Not applicable (not in the list of projects, which requires Environmental Clearance)
		Water (Prevention and control of pollution) Act, 1974 and Air (prevention and control of pollution) Act, 1981	Not applicable, since there are no requirement for setting up of hot mix plants, wet mix plants, stone crushers and diesel generators.
		The Wildlife Protection Act, 1972, amended in 2003 and 2006	As per section 28 (Grant of permit) of Wildlife Protection Act 1972, permission/ NoC from the Chief Wildlife warden has been obtained (Refer <b>Annexure 7</b> )
		The Forest Conservation Act, 1980 and its subsequent amendments	Not applicable, as there are no forest areas located within or in the surroundings of the project site
		The Ancient Monuments and Archaeological Sites and Remains Act, 1958, and the rules, 1959	Not applicable, as there are no monuments located within or in the vicinity of the subproject site.

**c. Compliance status with Loan Covenant:**

Package No	Environmental Safeguard related Loan Covenants	Compliance Status
<b>Package 5/4:</b>  Eco-tourism Development of Wildlife Zoo	The Project is undertaken, and the Project facilities are designed, constructed, implemented, operated, and maintained, in accordance with the Borrower's applicable laws and regulations; ADB's Safeguard Policy Statement (2009) and the EARF;	All ADB safeguards are being followed.



Package No	Environmental Safeguard related Loan Covenants	Compliance Status
	<p>The IEEs and EMPs are implemented in accordance with their terms ;</p> <p>In the event that any unanticipated adverse environmental impact occurs or a mitigation measure under an IEE or EMP does not have the desired effect, this is reported to ADB, and remedial actions are taken to mitigate the relevant impacts in consultation with the affected persons and ADB;</p> <p>Any changes to the location, land alignment, or environmental impacts on account of detailed designs of the Project facilities are mutually agreed between the Borrower and ADB, and are consistent with the eligibility criteria set forth in Schedule 4 to the FFA;</p> <p>The IEEs and EMPs are updated, as necessary, during the course of Project implementation, and submitted to ADB for clearance;</p> <p>The Works contractors are contractually obliged to implement the IEEs and the EMPs, and report on their implementation on a regular basis, along with any deviation; and</p> <p>Reports on the implementation of the IEEs and the EMPs are submitted to ADB on a quarterly basis.</p>	<p>IEE and EMP are being implemented in accordance with the terms of ADB.</p> <p>No unanticipated adverse environmental impact has occurred</p> <p>All the changes are consistent with the eligibility criteria set forth in Schedule 4 to the FFA.</p> <p>The IEE and EMP will be changed as necessary.</p> <p>Regular environmental monitoring is being performed and the report will be submitted to ADB on bi-annual basis.</p>

**d. Compliance status with Subproject Selection Criteria:**

S. No.	Subproject Selection Criteria	Package 5/4: Eco-tourism Development of Wildlife Zoo
1.	Site Description	The sub project is within the area available in Mahindra Chaudhary Zoological Park, Chhatbir.
2.	Description of proposed improvements	<ul style="list-style-type: none"> <li>• Construction of Thematic Zoo Entrance including Lake Landscaping</li> <li>• Construction of modern Interpretation centre</li> <li>• Creation of Zoological Education Park</li> </ul>



S. No.	Subproject Selection Criteria	Package 5/4: Eco-tourism Development of Wildlife Zoo
		<ul style="list-style-type: none"> <li>• Creation/Up-gradation of visitors convenience, shelters and rest areas inside Zoological park</li> <li>• Upgradation of primary and secondary travel paths to various zoo attraction</li> <li>• Construction of Tourist Facilities centre at the zoo main entrance gate</li> <li>• Strengthening of zoo waste disposal system including relaying of the sewer network of the zoo, installation of Sewerage Treatment Plant (STP)</li> <li>• Capacity building for tourism development and management</li> </ul>
3.	Design Criteria	Steps to minimize the Environmental impacts due to proposed interventions within the zoological park premises.

**e. Compliance status with EMMP as per IEE/EMP:**

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
1. Efficient drainage of site	Work being carried out as per plan	Satisfactory	Continuous monitoring is required.
2. Exposed steel and concrete structures to be avoided.	Designs proposed are in accordance to architectural character of place.	Satisfactory	Exposed steel and concrete are barricaded to avoid any safety hazard.
3. Construction work area to be demarcated on ground	Construction work area is being barricaded and separated from labour camps.	Satisfactory	Continuous monitoring is required.
4. Consideration to be given for material storage at construction sites.	Adequate space allotted for material storage	Satisfactory	All reusable construction material like bricks, boulders to be stacked and covered. All loose material will be covered from all the sides.
5. Safe disposal of extraneous wastes to be ensured in the pre-identified disposal locations.	All waste material at sites is being properly disposed.	Satisfactory	Continuous monitoring is required.
6. The contractor to take precaution to reduce the level of dust at construction sites.	Sprinkling of water and covering of loose construction material is being taken up.	Satisfactory	Continuous monitoring is required.
7. The waste generated will be reused in construction activities, either as a fill material or based on its suitability of reuse to maximum extent.	As per the mitigation measures, the generated construction waste has been utilised to the extent possible	Satisfactory	Continuous monitoring is required.

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
8. All workers employed on mixing asphaltic material, cement, lime mortars, concrete etc., will be provided with protective footwear and protective goggles.	All workers are being provided with PPEs to avoid any safety and health hazards.	Satisfactory	Continuous monitoring will be done to ensure all the workers are using PPE's.
9. The Contractor will, at his own expense, conform to all anti-malaria instructions given to him by the Engineer	Work being carried out as per plan	Satisfactory	Contractor has been instructed to implement all measures to avoid any mosquito breeding in the labour camps.

#### f. Environmental Quality Monitoring

Noise (Analysis results are enclosed in the Annexure - 8)

Location	Value	Standards
In the vicinity of the construction site, at the location advised by the Environment Specialist of the DSC	The observed day time noise value of 56.1 dB (A) and night time noise value of 50.5 dB (A) is found to be less than the prescribed limits in comparison with the CPCB Noise Quality Standard for <b>commercial area/ zone</b> .	CPCB noise standard for commercial area is 65 dB (A) for day time and 55 dB (A) for night time.

Ambient Air Monitoring (Analysis results are enclosed in the Annexure - 8)

Location	Parameter	Value	Standard
In the vicinity of the construction site, at the location advised by the Environment Specialist of the DSC	PM <sub>10</sub> , µg/m <sup>3</sup>	82.0	100.0
	PM <sub>2.5</sub> , µg/m <sup>3</sup>	36.0	80.0
	Oxides of Sulphur, µg/m <sup>3</sup>	4.0	80.0
	Oxides of Nitrogen, µg/m <sup>3</sup>	8.0	2.0
	Carbon monoxide, mg/m <sup>3</sup>	Not detected	
	The observed AAQ values are within the regulatory standards indicating the construction activities does not have any impact on the existing air quality.		

#### g. Grievance Record and Action Taken

Date	Subproject	Problem related to	Received through	Description	Status
1.	Package 5/4: Eco-tourism Development of Wildlife Zoo	None	NA	NA	No Grievances have been recorded so far.

#### IV. PACKAGE 6/5: PATIALA HERITAGE CONSERVATION AND TOURISM DEVELOPMENT PROJECT (QILA MUBARAK)

##### a. Implementation status

S. No.	Sub Project Component/Packages	Details of work under Package	Commencement of Civil Works	Expected date of Completion	Physical Progress till date	Type of Work presently Conducted	Remarks
	Package 6/5: Conservation of Main Gate of Qila Androon, and Art Conservation works with Adaptive Reuse, Landscaping and utility works at Qila Mubarak.	<ul style="list-style-type: none"> <li>• Conservation and restoration of buildings at Qila Mubarak.</li> <li>• Conservation works to be done to architectural and decorative details.</li> <li>• Adaptive reuse of area between Qila Androon and outer wall for museum.</li> <li>• Landscaping and Site Development: <ul style="list-style-type: none"> <li>○ Landscaping and site development of the inner areas of Qila Mubarak</li> <li>○ Provision of adequate lighting and internal signages.</li> <li>○ Provision of visitor facilities and services.</li> </ul> </li> <li>• Rerouting the electric cables currently running across the fort</li> <li>• Capacity building for tourism development and management.</li> </ul>	16 Sept 2015	15 Mar 2017 Extended upto 14 <sup>th</sup> Dec 2017	64.0%	<p><u>QILA MUBARAK PATIALA JALAU KHANA</u></p> <ul style="list-style-type: none"> <li>• South side verandah parapet wall outer plaster finishing, molding work in progress</li> <li>• East side column plaster/stucco finishing work in progress</li> <li>• Jalau Khana Central courtyard G5 Plaster finishing work in progress</li> <li>• Terrace Stair case mummy wall plastering in progress</li> <li>• F6 internal plastering work in progress.</li> </ul> <p><u>ANDROON MAHAL</u></p> <ul style="list-style-type: none"> <li>• Paint removing of entrance façade</li> <li>• G6 wall Stucco -</li> </ul>	

						plaster work in progress • Androon entrance area G5A internal plaster finishing work in progress <u>RANG AND SHEESH MAHAL</u> • Sheesh mahal 1st floor Terrace 1 wall stucco plaster finishing work in progress.	
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**b. Compliance status with Government Environmental Regulations (as indicated in the IEE):**

Package No	Sub Project Component/Packages	Clearance/ Approval required	Current Status
Package 6/5	Conservation of Main Gate of Qila Androon, and Art Conservation works with Adaptive Reuse, Landscaping and utility works at Qila Mubarak	Disposal plan for extraneous material is required.	Disposal of earth is being done as per the plan.

**Other Environmental Regulations**

	Tree cutting permissions	Tree cutting is not envisaged and hence tree cutting permission is not required.
	Sourcing of construction materials (quarry and borrow materials)	The quantity of the construction materials required for this sub project is very less and it has been sourced from local authorized (licensed) vendors.
	The EIA notification, 2006 (and its subsequent amendments)	Not applicable (not in the list of projects, which requires Environmental Clearance)
	Water (Prevention and control of pollution) Act, 1974 and Air (prevention and control of pollution) Act, 1981	Not applicable, since there are no requirement for setting up of hot mix plants, wet mix plants, stone crushers and diesel generators.
	The Wildlife Protection Act,	Not applicable, as there are no wildlife protected areas located within or in the

Package No	Sub Project Component/Packages	Clearance/ Approval required	Current Status
		1972, amended in 2003 and 2006	surroundings of the subproject site
		The Forest Conservation Act, 1980 and its subsequent amendments	Not applicable, as there are no forest areas located within or in the surroundings of the subproject site
		The Ancient Monuments and Archaeological Sites and Remains Act, 1958, and the rules, 1959	The subproject site (Qila Mubarak) is a state protected monument and hence NoC/ clearance from Cultural Affairs, Archaeology and Museums, Punjab has been obtained (Refer <b>Annexure 9</b> )

**c. Compliance status with Loan Covenant:**

Package no.	Environmental Safeguard related Loan Covenants	Compliance Status
Package 6/5: Patiala Heritage Conservation and Tourism Development Project (Qila Mubarak)	<p>The Project is undertaken, and the Project facilities are designed, constructed, implemented, operated, and maintained, in accordance with the Borrower's applicable laws and regulations; ADB's Safeguard Policy Statement (2009) and the EARF;</p> <p>The IEEs and EMPs are implemented in accordance with their terms;</p> <p>In the event that any unanticipated adverse environmental impact occurs or a mitigation measure under an IEE or EMP does not have the desired effect, this is reported to ADB, and remedial actions are taken to mitigate the relevant impacts in consultation with the affected persons and ADB;</p> <p>Any changes to the location, land alignment, or environmental impacts on account of detailed designs of the Project facilities are mutually agreed between the Borrower and ADB, and are consistent with the eligibility</p>	<p>All ADB safeguards are being followed.</p> <p>IEE and EMP are being implemented in accordance with the terms of ADB.</p> <p>No unanticipated adverse environmental impact has occurred</p> <p>All the changes are consistent with the eligibility criteria set forth in Schedule 4 to the FFA.</p>

Package no.	Environmental Safeguard related Loan Covenants	Compliance Status
	<p>criteria set forth in Schedule 4 to the FFA;</p> <p>The IEEs and EMPs are updated, as necessary, during the course of Project implementation and submitted to ADB for clearance;</p> <p>The Works contractors are contractually obliged to implement the IEEs and the EMPs, and report on their implementation on a regular basis, along with any deviation; and</p> <p>Reports on the implementation of the IEEs and the EMPs are submitted to ADB on a biannual basis.</p>	<p>The IEE and EMP will be changed as necessary.</p> <p>Regular environmental monitoring is being performed and the report will be submitted to ADB on bi-annual basis.</p>

**d. Compliance status with Subproject Selection Criteria:**

S. No.	Subproject Selection Criteria	Package 6/5: Patiala Heritage Conservation and Tourism Development Project (Qila Mubarak)
1.	Site Description	The subproject is within the area available in Qila Mubarak.
2.	Description of proposed improvements	<ul style="list-style-type: none"> <li>• Conservation and restoration of buildings at Qila Mubarak.</li> <li>• Conservation works to be done to architectural and decorative details.</li> <li>• Adaptive reuse of area between Qila Androon and outer wall for museum.</li> <li>• Landscaping and Site Development: <ul style="list-style-type: none"> <li>○ Landscaping and site development of the inner areas of Qila Mubarak</li> <li>○ Provision of adequate lighting and internal signage's.</li> <li>○ Provision of visitor facilities and services.</li> </ul> </li> <li>• Rerouting the electric cables currently running across the fort</li> </ul> <p>Capacity building for tourism development and management.</p>
3.	Design Criteria	Steps to minimize the environmental impacts due to proposed conservation measures at Qila Mubarak.

**e. Compliance status with EMMP as per IEE/EMP:**

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
1. Efficient drainage of site	Work being carried out as per plan	Satisfactory	Continuous monitoring is required.

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
2. Exposed steel and concrete structures to be avoided.	Designs proposed are in accordance to architectural character of place.	Satisfactory	Exposed steel and concrete are barricaded to avoid any safety hazard.
3. Construction work area to be demarcated on ground	Construction work area is being barricaded and separated from labour camps.	Satisfactory	Continuous monitoring is required.
4. Consideration to be given for material storage at construction sites.	Adequate space allotted for material storage	Satisfactory	All reusable construction material like bricks to be stacked and covered. All loose material will be covered from all the sides.
5. Safe disposal of extraneous wastes to be ensured in the pre-identified disposal locations.	All waste material at sites is being properly disposed	Satisfactory	Continuous monitoring is required.
6. The contractor to take precaution to reduce the level of dust at construction sites.	Sprinkling of water and covering of loose construction material is being taken up.	Satisfactory	Continuous monitoring is required.
7. The waste generated will be reused in construction activities, either as a fill material or based on its suitability of reuse to maximum extent.	As per the mitigation measures, the generated construction waste has been utilised to the extent possible	Satisfactory	Continuous monitoring is required.
8. All workers employed on mixing asphaltic material, cement, lime mortars, concrete etc., will be provided with protective footwear and protective goggles.	All workers are being provided with PPEs to avoid any safety and health hazards.	Satisfactory	Continuous monitoring will be done to ensure all the workers are using PPE's.
9. The Contractor will, at his own expense, conform to all anti-malaria instructions given to him by the Engineer	Work being carried out as per plan	Satisfactory	Contractor has been instructed to implement all measures to avoid any mosquito breeding in the labour camps.

#### f. Environmental Quality Monitoring

Noise (Analysis results are enclosed in the Annexure - 10)

Location	Value	Standards
1. At construction site	61 dB(A) 44 dB(A) The observed values are found to be less than the prescribed limits as stipulated in the CPCB Noise Quality Standard for <b>commercial area/ zone</b>	CPCB noise standard for commercial area is 65 dB(A) for day time

**Ambient Air Monitoring (Analysis results are enclosed in the Annexure - 10)**

Location	Parameter	Value	Standard
In the vicinity of the construction site, at the location advised by the Environment Specialist of the DSC	PM <sub>10</sub> , µg/m <sup>3</sup>	77.0	100.0
	PM <sub>2.5</sub> , µg/m <sup>3</sup>	55.0	60.0
	Oxides of Sulphur, µg/m <sup>3</sup>	10.0	80.0
	Oxides of Nitrogen, µg/m <sup>3</sup>	17.0	80.0
	Carbon monoxide, mg/m <sup>3</sup>	Not detected	2.0
	The observed AAQ values are within the regulatory standards indicating the construction activities does not have any impact on the existing air quality.		

**g. Grievance Record and Action Taken**

Date	Subproject	Problem related to	Received through	Description	Status
1.	Package 6/5: Patiala Heritage Conservation and Tourism Development Project (Qila Mubarak)	None	NA	NA	No Grievances have been recorded so far.



## V. PACKAGE 7/7: ESTABLISHMENT OF TOURISM FACILITIES AND INFRASTRUCTURE SHOWCASING OF SIKH CULTURE, CHAMKAUR SAHIB (CIVIL WORKS)

### a. Implementation status:

S. No.	Sub Project Component/Packages	Details of work under Package	Commencement of Civil Works	Expected date of Completion	Physical Progress till date	Type of Work presently Conducted	Remarks
1	<b>Package 7/7:</b> Establishment of Tourism Facilities and Infrastructure showcasing of Sikh Culture, Chamkaur Sahib (Civil Works)	<ul style="list-style-type: none"> <li>• Construction of TRC (Tourist Reception Centre)</li> <li>• Provision of garden lighting and high mast lighting.</li> <li>• Construction of the main entrance gate</li> <li>• Provision of visitor facilities like toilets, drinking water facilities etc.</li> <li>• Fitting and fixtures</li> <li>• Display materials</li> <li>• Provision Services such as electrical, plumbing, HVAC etc</li> </ul>	08 June 2015	06 Dec 2016 (Extended upto 30 <sup>th</sup> June, 2017)	35.0%	<ul style="list-style-type: none"> <li>• Dome staging and shuttering work under progress of display hall no 3rd.</li> <li>• Kiosk flooring work under progress.</li> <li>• Flooring work under progress in open air theatre.</li> <li>• Kerb fixing of pathway work under progress.</li> <li>• Car parking PCC work under progress.</li> </ul>	Instruction has been given to the contractor to expedite the work.

### b. Compliance status with Government Environmental Regulations (as indicated in the IEE):

Package No	Sub Project Component/Packages	Clearance/ Approval required	Current Status
<b>Package 7/7:</b> Establishment of Tourism Facilities and Infrastructure showcasing of Sikh Culture, Chamkaur Sahib (Civil Works)	<ul style="list-style-type: none"> <li>• Construction of TRC (Tourist Reception Centre)</li> <li>• Provision of garden lighting and high mast lighting.</li> <li>• Construction of the main entrance gate</li> <li>• Provision of visitor facilities like toilets, drinking water facilities etc</li> </ul>	Disposal plan for extraneous material is required	Disposal of extraneous material is as per the plan.

Package No	Sub Project Component/Packages	Clearance/ Approval required	Current Status
	<ul style="list-style-type: none"> <li>• Fitting and fixtures</li> <li>• Display materials</li> <li>• Provision of services such as electrical, plumbing, HVAC etc.</li> </ul>		
<b>Other Environmental Regulations</b>			
		Tree cutting permissions	Tree cutting is not envisaged and hence tree cutting permission is not required.
		Sourcing of construction materials (quarry and borrow materials)	The quantity of the construction materials required for this sub project is very less and it has been sourced from local authorized (licensed) vendors
		The EIA notification, 2006 (and its subsequent amendments)	Not applicable (not in the list of projects, which requires Environmental Clearance)
		Water (Prevention and control of pollution) Act, 1974 and Air (prevention and control of pollution) Act, 1981	Not applicable, since there are no requirement for setting up of hot mix plants, wet mix plants, stone crushers and diesel generators.
		The Wildlife Protection Act, 1972, amended in 2003 and 2006	Not applicable, as there are no ecological sensitive areas located within or in the surroundings of the subproject site
		The Forest Conservation Act, 1980 and its subsequent amendments	Not applicable, as there are no forest areas located within or in the surroundings of the subproject site
		The Ancient Monuments and Archaeological Sites and Remains Act, 1958, and the rules, 1959	Not applicable, the monuments are not under the ambit of this Act

**c. Compliance status with Loan Covenant:**

Package no	Environmental Safeguard related Loan Covenants	Compliance Status
<b>Package 7/7:</b> Establishment of Tourism Facilities and Infrastructure showcasing of Sikh Culture, Chamkaur Sahib (Civil Works)	<p>The Project is undertaken, and the Project facilities are designed, constructed, implemented, operated, and maintained, in accordance with the Borrower's applicable laws and regulations; ADB's Safeguard Policy Statement (2009) and the EARF;</p> <p>The IEEs and EMPs are implemented in accordance with their terms ;</p> <p>In the event that any unanticipated adverse environmental impact occurs or a mitigation measure under an IEE or EMP does not have the desired effect, this is reported to ADB, and remedial actions are taken to mitigate the relevant impacts in consultation with the affected persons and ADB;</p> <p>Any changes to the location, land alignment, or environmental impacts on account of detailed designs of the Project facilities are mutually agreed between the Borrower and ADB, and are consistent with the eligibility criteria set forth in Schedule 4 to the FFA;</p> <p>The IEEs and EMPs are updated, as necessary, during the course of Project implementation, and submitted to ADB for clearance;</p> <p>The Works contractors are contractually obliged to implement the IEEs and the EMPs, and report on their implementation on a regular basis, along with any deviation; and</p> <p>Reports on the implementation of the IEEs and the EMPs are submitted to ADB on a biannual basis.</p>	<p>All ADB safeguards are being followed.</p> <p>IEE and EMP are being implemented in accordance with the terms of ADB.</p> <p>No unanticipated adverse environmental impact has occurred.</p> <p>All the changes are consistent with the eligibility criteria set forth in Schedule 4 to the FFA.</p> <p>The IEE and EMP will be changed as necessary.</p> <p>Regular environmental monitoring is being performed and the report will be submitted to ADB on bi-annual basis.</p>

**d. Compliance status with Subproject Selection Criteria:**

S No	Subproject Selection Criteria	Package 7/7: Establishment of Tourism Facilities and Infrastructure showcasing of Sikh Culture, Chamkaur Sahib (Civil Works)
1	Site Description	Chamkaur Sahib is a sub divisional town in the district of Rupnagar Punjab. Situated on the banks of the Sirhind Canal. The subproject area is located in Rupnagar city urban and rural areas

S No	Subproject Selection Criteria	Package 7/7: Establishment of Tourism Facilities and Infrastructure showcasing of Sikh Culture, Chamkaur Sahib (Civil Works)
		which were converted into urban use for many years ago, and there is no natural habitat left at these sites. The sites are not within or adjacent to any protected areas
2	Description of proposed improvements	<ul style="list-style-type: none"> <li>• Construction of TRC (Tourist Reception Centre)</li> <li>• Provision of garden lighting and high mast lighting.</li> <li>• Construction of the main entrance gate</li> <li>• Provision of visitor facilities like toilets, drinking water facilities etc</li> <li>• Fitting and fixtures</li> <li>• Display materials</li> <li>• Provision Services such as electrical, plumbing, HVAC etc</li> </ul>
3	Design Criteria	<p><b>Civil structure</b> (parking and TRC centre inclusive of ramps, staircases and toilets).</p> <p><b>Landscape</b> – Hardscape –Pavement, signage, lighting, bollards, chain barriers; Softscape – plant material</p> <p><b>Infrastructure</b> – water supply, sewerage, firefighting, storm water, electrical, dustbins and drinking water facility.</p>

**e. Compliance status with EMMP as per IEE/EMP for separate Packages:**

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
1. Efficient drainage of site	Work being carried out as per plan	Satisfactory	Continuous monitoring is required.
2. Exposed steel and concrete structures to be avoided.	Designs proposed are in accordance to architectural character of place.	Satisfactory	Exposed steel and concrete are barricaded to avoid any safety hazard.
3. Construction work area to be demarcated on ground.	Construction work area is being barricaded and separated from labour camps.	Satisfactory	Continuous monitoring is required.
4. Consideration to be given for material storage at construction sites.	Adequate space allotted for material storage	Satisfactory	All reusable construction material like bricks to be stacked and covered. All loose material will be covered from all the sides.
5. Safe disposal of bituminous wastes to be ensured in the pre-identified disposal locations.	Disposal of bituminous material is as per the plan	Satisfactory	All waste material at sites will be properly disposed.
6. Adequate safety precautions will be ensured during transportation of quarry material.	Work being carried out as per plan	Satisfactory	Continuous monitoring is required.
7. The contractor to take precaution to reduce the level of	Sprinkling of water and covering of loose construction	Satisfactory	Continuous monitoring is required

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
dust at construction sites.	material is being taken up.		
8. All vehicles, equipments and machinery used for construction to be regularly maintained.	Work being carried out as per plan	Satisfactory	Continuous monitoring is required
8. All workers employed on mixing asphaltic material, cement, lime mortars, concrete etc., will be provided with protective footwear and protective goggles.	All workers are being provided with PPEs to avoid any safety and health hazards.	Satisfactory (Photographs are attached as <b>Annexure - 2</b> ).	Continuous monitoring will be done to ensure all the workers are using PPE's.
9. The Contractor will, at his own expense, conform to all anti-malaria instructions given to him by the Engineer	Work being carried out as per plan	Satisfactory	Contractors have been instructed to implement all measures to avoid any mosquito breeding in the labour camps.

#### f. Environmental Quality Monitoring

##### Noise (Analysis results are enclosed in the Annexure - 11)

Location	Value	Standards
In the vicinity of the construction site, at the location advised by the Environment Specialist of the DSC	The observed day time noise value of 54.7 dB (A) and night time noise value of 47.1 dB (A) is found to be less than the prescribed limits in comparison with the CPCB Noise Quality Standard for <b>commercial area/ zone</b> .	CPCB noise standard for commercial area is 65 dB(A) for day time and 55 dB (A) for night time.

##### Ambient Air Monitoring (Analysis results are enclosed in the Annexure - 11)

Location	Parameter	Value	Standard
In the vicinity of the construction site, at the location advised by the Environment Specialist of the DSC	PM <sub>10</sub> , µg/m <sup>3</sup>	88.0	100.0
	PM <sub>2.5</sub> , µg/m <sup>3</sup>	35.0	60.0
	Oxides of Sulphur, µg/m <sup>3</sup>	7.0	80.0
	Oxides of Nitrogen, µg/m <sup>3</sup>	10.0	80.0
	Carbon monoxide, mg/m <sup>3</sup>	Not detected	2.0
	The observed AAQ values are within the regulatory standards indicating the construction activities does not have any impact on the existing air quality.		

#### g. Grievance Record and Action Taken

Date	Subproject	Problem related to	Received through	Description	Status
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	Package 7/7: Establishment of Tourism Facilities and Infrastructure showcasing of Sikh Culture, Chamkaur Sahib (Civil Works)	None	NA	NA	No Grievances have been recorded so far.
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## VI. PACKAGE 8/9: STRUCTURES CONSERVATION AT GOBINDGARH FORT

a. Implementation status:

b. Compliance status with Government Environmental Regulations:

S. No.	Sub Project Component/Packages	Details of work under Package	Commencement of Civil Works	Expected date of Completion	Physical Progress till date	Type of Work presently Conducted	Remarks
1	<b>Lot 1 - Conservation at Gobindgarh Fort Structures</b>	Conservation and structural stabilization of the fort walls, bastions and moat	08 Feb 2016	07 Aug 2017	19.0%	<ul style="list-style-type: none"> <li>Dismantling of floor under progress</li> </ul>	Work progress is very slow due to less deployment of labour
2	<b>Lot 2 - Conservation at Gobindgarh Fort Structures</b>	Conservation and structural stabilization of the fort walls, bastions and moat	10 Nov 2015	27 Jan 2017 (extended upto 26 <sup>th</sup> July 2017)	55.0%	<ul style="list-style-type: none"> <li>Lime Plaster is in progress</li> <li>Removal of extra earth in progress</li> <li>Pitching wall is in progress</li> <li>Moat Area outer/inner wall plaster in progress</li> <li>Inner Rampart flooring in brick laying</li> <li>Adjoining Rampart plastering</li> </ul>	Instruction has been given to the contractor to expedite the work.

Package No	Sub Project Component/Packages	Clearance/ required	Approval	Current Status
<b>Package 8/9: Structures Conservation at Gobindgarh Fort</b>	Conservation and structural stabilization of the fort walls, bastions and moat	Disposal plan for extraneous material is required		Disposal of extraneous material is as per the plan.
	<b>Other Environmental Regulations</b>			
		The EIA notification, 2006 (and its subsequent amendments)		Not applicable (not in the list of projects, which requires Environmental Clearance)
		Tree cutting permissions		Tree cutting is not envisaged and hence tree cutting permission is not required.
		Sourcing of construction materials (quarry and borrow materials)		The quantity of the construction materials required for this sub project is very less and it has been sourced

Package No	Sub Component/Project Packages	Clearance/ Approval required	Current Status
			from local authorized (licensed) vendors.
		Water (Prevention and control of pollution) Act, 1974 and Air (prevention and control of pollution) Act, 1981	Not applicable, since there are no requirement for setting up of hot mix plants, wet mix plants and diesel generators.
		The Wildlife Protection Act, 1972, amended in 2003 and 2006	Not applicable, as there are no ecological sensitive areas located within or in the surroundings of the subproject site
		The Forest Conservation Act, 1980 and its subsequent amendments	Not applicable, as there are no forest areas located within or in the surroundings of the subproject site
		The Ancient Monuments and Archaeological Sites and Remains Act, 1958, and the rules, 1959	Not applicable the monument is not under the ambit of this Act

**c. Compliance status with Loan Covenant:**

Package No	Environmental Safeguard related Loan Covenants	Compliance Status
<b>Package 8/9:</b> Structures Conservation at Gobindgarh Fort	<p>The Project is undertaken, and the Project facilities are designed, constructed, implemented, operated, and maintained, in accordance with the Borrower's applicable laws and regulations; ADB's Safeguard Policy Statement (2009) and the EARF;</p> <p>The IEEs and EMPs are implemented in accordance with their terms ;</p> <p>In the event that any unanticipated adverse environmental impact occurs or a mitigation measure under an IEE or EMP does not have the desired effect, this is reported to ADB, and remedial actions are taken to mitigate the relevant impacts in consultation with the affected persons and ADB;</p> <p>Any changes in the location, land alignment, or environmental impacts on account of detailed designs of the Project</p>	<p>All ADB safeguards are being followed.</p> <p>IEE and EMP are being implemented in accordance with the terms of ADB.</p> <p>No unanticipated adverse environmental impact has occurred.</p> <p>All the changes are consistent with the eligibility criteria set forth in Schedule 4 to the FFA.</p>



Package No	Environmental Safeguard related Loan Covenants	Compliance Status
	<p>facilities are mutually agreed between the Borrower and ADB, and are consistent with the eligibility criteria set forth in Schedule 4 to the FFA;</p> <p>The IEEs and EMPs are updated, as necessary, during the course of Project implementation, and submitted to ADB for clearance;</p> <p>The Works contractors are contractually obliged to implement the IEEs and the EMPs, and report on their implementation on a regular basis, along with any deviation; and</p> <p>Reports on the implementation of the IEEs and the EMPs are submitted to ADB on a biannual basis.</p>	<p>The IEEs and EMPs will be changed as necessary.</p> <p>Regular environmental monitoring is being performed and report shall be submitted to ADB on biannual basis.</p>

**d. Compliance status with Subproject Selection Criteria:**

S No	Subproject Selection Criteria	Package 8/9: Structures Conservation at Gobindgarh Fort
1	Site Description	The project is within the area available in Gobindgarh Fort.
2	Description of proposed improvements	Conservation and structural stabilization of the fort walls, bastions and moat walls
3	Design Criteria	Careful selection of material, the result of interventions is unobtrusive and will be integral part of the overall ambience.

**e. Compliance status with EMMP as per IEE/EMP for separate Packages:**

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
1. Efficient drainage of site	Work being carried out as per plan	Satisfactory	Continuous monitoring is required.
2. Exposed steel and concrete structures to be avoided.	Designs proposed are in accordance to architectural character of place.	Satisfactory	Exposed steel and concrete is being barricaded and covered.
3. Construction work area to be demarcated on ground	Work being carried out as per plan	Satisfactory	Construction work area is barricaded and separated from labour settlements.
4. Consideration to be given for material storage at construction sites.	Adequate space allotted for material storage	Satisfactory	Material is being properly stacked, covered and stored.
5. Safe disposal of extraneous wastes to be ensured in the pre-	Work being carried out as per plan	Satisfactory	Contractors have been directed to ensure proper

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
identified disposal locations.			disposal of wastes at site.
6. Excavated earth from moat to be reused in the ongoing project site.	Excavated earth is being covered and stored properly.	Satisfactory	To the extent the excavated earth has been reused
7. The contractor to take precaution to reduce the level of dust at construction sites.	Sprinkling of water is being done at regular intervals. Construction material is covered.	Satisfactory	All construction material to be covered properly from all the sides.
8. The waste generated will be reused in construction activities, either as a fill material or based on its suitability of reuse to maximum extent.	The generated construction waste are reused to the extent possible, excess waste are disposed off in the designated areas	Satisfactory	Continuous monitoring is required.
9. All workers employed on mixing asphaltic material, cement, lime mortars, concrete etc., will be provided with protective footwear and protective goggles.	All workers have been provided with PPEs.	Satisfactory (Photographs are attached as <b>Annexure -2</b> ).	Continuous monitoring will be done to ensure all the workers are using PPE's.
10. The Contractor will, at his own expense, conform to all anti-malaria instructions given to him by the Engineer	Work being carried out as per plan	Satisfactory	Contractor has been instructed to implement all measures to avoid any mosquito breeding in the labour camps.

#### f. Environmental Quality Monitoring

##### Noise (Analysis results are enclosed in the Annexure - 12)

Location	Value	Standards
In the vicinity of the construction site, at the location advised by the Environment Specialist of the DSC	The observed day time noise value of 62.2 dB (A) and night time noise value of 51.2 dB (A) is found to be less than the prescribed limits in comparison with the CPCB Noise Quality Standard for <b>commercial area/ zone</b> .	CPCB noise standard for commercial area is 65 dB (A) for day time and 55 dB (A) for night time.

##### Ambient Air Monitoring (Analysis results are enclosed in the Annexure - 12)

Location	Parameter	Value	Standard
In the vicinity of the construction site, at the location advised by the Environment Specialist of the DSC	PM <sub>10</sub> , µg/m <sup>3</sup>	86.0	100.0
	PM <sub>2.5</sub> , µg/m <sup>3</sup>	48.0	60.0
	Oxides of Sulphur, µg/m <sup>3</sup>	8.6	80.0
	Oxides of Nitrogen, µg/m <sup>3</sup>	18.2	80.0
	Carbon monoxide mg/m <sup>3</sup>	Not detected	2.0

Location	Parameter	Value	Standard
		The observed AAQ values are within the regulatory standards indicating the construction activities does not have any impact on the existing air quality.	

**g. Grievance Record and Action Taken**

Date	Subproject	Problem related to	Received through	Description	Status
	<b>Package 8/9:</b> Structures Conservation at Gobindgarh Fort	None	NA	NA	No Grievances have been recorded so far.

## VII. PACKAGE 10/14: LAST MILE CONNECTIVITY TO CULTURAL SITES IN WESTERN CIRCUIT

### a. Implementation status

S. No.	Project Component/Packages	Details of work under Package	Commencement of Civil Works	Expected date of Completion	Physical Progress till date	Type of Work presently Conducted	Remarks
1.	<b>Package 10/14:</b> Last mile Connectivity to Cultural Sites in Western Circuit	<ul style="list-style-type: none"> <li>Upgradation and strengthening of the exiting road</li> <li>Upgradation/ Relaying of PCC at certain stretches</li> <li>Provision of 1 m wide berm (Brick on edge) on both sides</li> <li>Provision of storm water drainage system, along both sides of road</li> <li>Upgradation of culverts.</li> <li>Widening of minor bridges</li> <li>Provision of adequate footpaths</li> </ul>	22 May 2015	21 Nov 2016 (Extended upto 30 <sup>th</sup> June, 2017). The contractor has applied for further extension upto 30 <sup>th</sup> Sep 2017	75%	<ul style="list-style-type: none"> <li>Approach road works to Ram Tirath is in progress</li> </ul>	Contractor is instructed to expedite the work

### b. Compliance status with Government Environmental Regulations (as indicated in the IEE):

Package No	Sub Project Component/Packages	Clearance/ Approval required	Current Status
<b>Package 10/14:</b> Last mile Connectivity to Cultural Sites in Western Circuit	<ul style="list-style-type: none"> <li>Upgradation and strengthening of the exiting road</li> <li>Upgradation/ Relaying of PCC at certain stretches</li> <li>Provision of 1 m wide berm (Brick on edge) on both sides</li> <li>Provision of storm water drainage system, along both sides of road</li> <li>Upgradation of culverts.</li> <li>Widening of minor bridges</li> </ul>	Disposal plan for extraneous material is required.	Disposal of extraneous material is as per the plan.
		<b>Other Environmental Regulations</b>	
		Tree cutting permissions	Tree cutting is not envisaged and hence the tree cutting permission is not required.
		Sourcing of construction materials (quarry and borrow materials)	The quantity of the construction materials required for this sub project is very less and it has

Package No	Sub Component/Project Packages	Clearance/ Approval required	Current Status
	<ul style="list-style-type: none"> <li>Provision of adequate footpaths</li> </ul>		been sourced from local authorized (licensed)vendors
		The EIA notification, 2006 (and its subsequent amendments)	Not applicable (not in the list of projects, which requires Environmental Clearance)
		Water (Prevention and control of pollution) Act, 1974 and Air (prevention and control of pollution) Act, 1981	Not applicable, since there are no requirement for setting up of hot mix plants, wet mix plants, stone crushers and diesel generators.
		The Wildlife Protection Act, 1972, amended in 2003 and 2006	Not applicable, as there are no ecological sensitive areas located within or in the surroundings of the subproject site
		The Forest Conservation Act, 1980 and its subsequent amendments	Not applicable, as there are no forest areas located within or in the surroundings of the project site
		The Ancient Monuments and Archaeological Sites and Remains Act, 1958, and the rules, 1959	Not applicable, as there are no monuments located within or in the vicinity of the subproject area

**c. Compliance status with Loan Covenant:**

Package no.	Safeguard related Loan Covenants	Compliance Status
<b>Package 10/14:</b> Last mile Connectivity to Cultural Sites in Western Circuit	<p>The Project is undertaken, and the Project facilities are designed, constructed, implemented, operated, and maintained, in accordance with the Borrower's applicable laws and regulations; ADB's Safeguard Policy Statement (2009) and the EARF;</p> <p>The IEEs and EMPs are implemented in accordance with their terms ;</p>	<p>All ADB safeguards are being followed.</p> <p>IEE and EMP are being implemented in accordance with the terms of ADB.</p>

Package no.	Safeguard related Loan Covenants	Compliance Status
	<p>In the event that any unanticipated adverse environmental impact occurs or a mitigation measure under an IEE or EMP does not have the desired effect, this is reported to ADB, and remedial actions are taken to mitigate the relevant impacts in consultation with the affected persons and ADB;</p> <p>Any changes to the location, land alignment, or environmental impacts on account of detailed designs of the Project facilities are mutually agreed between the Borrower and ADB, and are consistent with the eligibility criteria set forth in Schedule 4 to the FFA;</p> <p>The IEEs and EMPs are updated, as necessary, during the course of Project implementation, and submitted to ADB for clearance;</p> <p>The Works contractors are contractually obliged to implement the IEEs and the EMPs, and report on their implementation on a regular basis, along with any deviation; and</p> <p>Reports on the implementation of the IEEs and the EMPs are submitted to ADB on a biannual basis.</p>	<p>No unanticipated adverse environmental impact has occurred</p> <p>All the changes are consistent with the eligibility criteria set forth in Schedule 4 to the FFA.</p> <p>The IEE and EMP will be changed as necessary.</p> <p>Regular environmental monitoring is being performed and report is being submitted to ADB on biannual basis.</p>

**d. Compliance status with Subproject Selection Criteria:**

S. No.	Subproject Selection Criteria	Package 10/14: Last mile Connectivity to Cultural Sites in Western Circuit
1	Site Description	The subproject area falls under the western circuit. The proposed interventions are for the existing roads, which connects the cultural sites. The present conditions of the connectivity roads are not in good condition and hence it is proposed for improvements.
2	Description of proposed improvements	<ul style="list-style-type: none"> <li>• Upgradation and strengthening of the exiting road</li> <li>• Upgradation/ Relaying of PCC at certain stretches</li> <li>• Provision of 1 m wide berm (Brick on edge) on both sides</li> <li>• Provision of storm water drainage system, along both sides of road</li> <li>• Upgradation of culverts.</li> <li>• Widening of minor bridges</li> <li>• Provision of adequate footpaths</li> </ul>

S. No.	Subproject Selection Criteria	Package 10/14: Last mile Connectivity to Cultural Sites in Western Circuit
3	Design Criteria	The last mile connectivity is designed based on the volume of pilgrims/ tourists visiting the cultural sites. The roads are designed to accommodate the anticipated vehicle volume; the roads thus designed are in line with the MoRTH requirements.

**e. Compliance status with EMMP as per IEE/EMP for separate Packages:**

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
1. Specific interventions for improvement of pedestrian safety.	Exposed steel and concrete are barricaded to avoid any safety hazard to the pedestrians.	Satisfactory	Continuous monitoring is required
2. Construction work area to be demarcated on ground.	Construction work area is being barricaded and separated from labour camps.	Satisfactory	Continuous monitoring is required
3. Consideration to be given for material storage at construction sites.	Adequate space allotted for material storage	Satisfactory	All reusable construction material like bricks to be stacked and covered. All loose material will be covered from all the sides.
4. Safe disposal of bituminous wastes to be ensured in the pre-identified disposal locations.	Disposal of bituminous material as per plan	Satisfactory	Disposal of the waste materials shall be monitored.
5. Adequate safety precautions will be ensured during transportation of quarry material.	Covering the quarry materials to prevent spill and spread of dust during the transportation	Satisfactory	Continuous monitoring is required
6. The contractor to take precaution to reduce the level of dust at construction sites.	Sprinkling of water and covering of loose construction material is being taken up	Satisfactory	Continuous monitoring is required. Ambient air quality is performed to cross check the pollution levels
7. All vehicles, equipment's and machinery used for construction to be regularly maintained.	Work being carried out as per plan	Satisfactory	Continuous monitoring is required.
8. All workers employed on mixing asphaltic material, cement, lime mortars, concrete etc., will be provided with protective	Continuous monitoring will be done to ensure all the workers are using PPE's.	Satisfactory (Photographs are attached as <b>Annexure -2</b> ).	Continuous monitoring is required

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
footwear and protective goggles.			
9. The Contractor will, at his own expense, conform to all anti-malaria instructions given to him by the Engineer	Work being carried out as per plan	Satisfactory	Contractors have been instructed to implement all measures to avoid any mosquito breeding in the labour camps.

#### f. Environmental Quality Monitoring

*Major road construction activities have already been completed and now the contractor has been asked to rectify the defects in road works. Hence, environmental monitoring has not been performed for this package.*

#### g. Grievance Record and Action Taken

Date	Subproject	Problem related to	Received through	Description	Status
	<b>Package 10/14:</b> Last mile Connectivity to Cultural Sites in Western Circuit	None	NA	NA	No Problem has been reported.



## VIII. PACKAGE 13/20: CONSERVATION AND ADAPTIVE REUSE OF COLONIAL HERITAGE IN KAPURTHALA - DARBAR HALL

### a. Implementation status

S. No.	Sub Project Component/ Packages	Details of work under Package	Commence ment of Civil	Expected date of Completion	Physical Progress till date	Type of Work presently Conducted	Remarks
1.	<b>Package 13/20:</b> Conservation and adaptive reuse of colonial heritage in Kapurthala - Darbar Hall	Conservation and restoration of the Central building which includes <ul style="list-style-type: none"> <li>• Removal of vegetation, repair works</li> <li>• Reconstruction of fallen roofs</li> <li>• Re-plastering the building.</li> <li>• Provision of Services such as Electrical, Plumbing, Firefighting, HVAC etc</li> </ul>	25 July 2015	24 Jan 2017 (Extended upto 23 <sup>rd</sup> July 2017)	30.0%	<ul style="list-style-type: none"> <li>• Scrapping of old paint</li> <li>• Ceiling paint&amp; Flooring work</li> <li>• Consolidation of brick work&amp; Façade work</li> <li>• G.I sheet for roof</li> <li>• Chajja projection work</li> <li>• Stucco work, Toilet plumbing and khamira wash work</li> </ul>	Manpower deployed is very less as compared to completion schedule.

### b. Compliance status with Government Environmental Regulations (as indicated in the IEE):

Package No	Sub Project Component/Packages	Clearance/ Approval required	Current Status
<b>Package 13/20:</b> Conservation and adaptive reuse of colonial heritage in Kapurthala - Darbar Hall	Conservation and restoration of the Central building which includes <ul style="list-style-type: none"> <li>• Removal of vegetation, repair works</li> <li>• Reconstruction of fallen roofs</li> <li>• Re-plastering the building.</li> <li>• Provision of Services such as Electrical, Plumbing, Firefighting, HVAC etc.</li> </ul>	Disposal plan for extraneous material is required.	Disposal of extraneous material is as per the plan.
		<b>Other Environmental Regulations</b>	
		Tree cutting permissions	Tree cutting is not envisaged and hence tree cutting permission is not required.
		Sourcing of construction materials (quarry and borrow materials)	The quantity of the construction materials required for this sub project is very less and it has been sourced from local authorized (licensed) vendors

Package No	Sub Component/Packages	Project Clearance/ Approval required	Current Status
		The EIA notification, 2006 (and its subsequent amendments)	Not applicable (not in the list of projects, which requires Environmental Clearance)
		Water (Prevention and control of pollution) Act, 1974 and Air (prevention and control of pollution) Act, 1981	Not applicable, since there are no requirement for setting up of hot mix plants, wet mix plants, stone crushers and diesel generators.
		The Wildlife Protection Act, 1972, amended in 2003 and 2006	Not applicable, as there are no ecological sensitive areas located within or in the surroundings of the subproject site
		The Forest Conservation Act, 1980 and its subsequent amendments	Not applicable, as there are no forest areas located within or in the surroundings of the project site
		The Ancient Monuments and Archaeological Sites and Remains Act, 1958, and the rules, 1959	Not applicable, the monuments are not under the ambit of this Act

**c. Compliance status with Loan Covenant:**

Package no	Environmental Safeguard related Loan Covenants	Compliance Status
Package 13/20: Conservation and adaptive reuse of colonial heritage in Kapurthala - Darbar Hall	<p>The Project is undertaken, and the Project facilities are designed, constructed, implemented, operated, and maintained, in accordance with the Borrower's applicable laws and regulations; ADB's Safeguard Policy Statement (2009) and the EARF;</p> <p>The IEEs and EMPs are implemented in accordance with their terms;</p> <p>In the event that any unanticipated adverse environmental impact occurs or a mitigation measure under an IEE or EMP does not have the</p>	<p>All ADB safeguards are being followed.</p> <p>IEE and EMP are being implemented in accordance with the terms of ADB.</p> <p>No unanticipated adverse environmental impact has occurred.</p>

Package no	Environmental Safeguard related Loan Covenants	Compliance Status
	<p>desired effect, this is reported to ADB, and remedial actions are taken to mitigate the relevant impacts in consultation with the affected persons and ADB;</p> <p>Any changes to the location, land alignment, or environmental impacts on account of detailed designs of the Project facilities are mutually agreed between the Borrower and ADB, and are consistent with the eligibility criteria set forth in Schedule 4 to the FFA;</p> <p>The IEEs and EMPs are updated, as necessary, during the course of Project implementation, and submitted to ADB for clearance;</p> <p>The Works contractors are contractually obliged to implement the IEEs and the EMPs, and report on their implementation on a regular basis, along with any deviation; and</p> <p>Reports on the implementation of the IEEs and the EMPs are submitted to ADB on a biannual basis.</p>	<p>All the changes are consistent with the eligibility criteria set forth in Schedule 4 to the FFA.</p> <p>The IEEs and EMPs will be changed as necessary.</p> <p>Regular environmental monitoring is being performed and report is being submitted to ADB on biannual basis.</p>

**d. Compliance status with Subproject Selection Criteria:**

S. No.	Subproject Selection Criteria	Package 13/20: Conservation and adaptive reuse of colonial heritage in Kapurthala - Darbar Hall
1.	Site Description	The subproject is within the area available in the Darbar Hall.
2.	Description of proposed improvements	<ul style="list-style-type: none"> <li>• Removal of vegetation, repair works</li> <li>• Reconstruction of fallen roofs</li> <li>• Re-plastering the building.</li> <li>• Provision of Services such as Electrical, Plumbing, Firefighting, HVAC etc</li> </ul>
3.	Design Criteria	Steps to minimize the environmental impacts due to proposed interventions in Darbar Hall.

**e. Compliance status with EMMP as per IEE/EMP:**

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
1. Efficient drainage of site	Work being carried out as per plan	Satisfactory	Continuous monitoring is required.
2. Exposed steel and concrete structures to be avoided.	Designs proposed are in accordance to architectural character of place.	Satisfactory	Exposed steel and concrete are barricaded to avoid any safety hazard.
3. Construction work area to be demarcated on ground	Construction work area is being barricaded and separated from labour camps	Satisfactory	Continuous monitoring is required.
4. Consideration to be given for material storage at construction sites.	Adequate space allotted for material storage	Satisfactory	All reusable construction material like bricks to be stacked and covered. All loose material will be covered from all the sides.
5. Safe disposal of extraneous wastes to be ensured in the pre-identified disposal locations.	All the waste material at sites is properly disposed.	Satisfactory	Continuous monitoring is required.
6. The contractor to take precaution to reduce the level of dust at construction sites.	Sprinkling of water and covering of loose construction material is being taken up	Satisfactory	Continuous monitoring is required.
7. The waste generated will be reused in construction activities, either as a fill material or based on its suitability of reuse to maximum extent.	As per the mitigation measures the construction waste are utilised to the extent possible	Satisfactory	Continuous monitoring is required.
8. All workers employed on mixing asphaltic material, cement, lime mortars, concrete etc., will be provided with protective footwear and protective goggles.	Work being carried out as per plan	Satisfactory (Photographs are attached as <b>Annexure -2</b> ).	Continuous monitoring will be done to ensure all the workers are using PPE's.
9. The Contractor will, at his own expense, conform to all anti-malaria instructions given to him by the Engineer	Work being carried out as per plan	Satisfactory	Contractors have been instructed to implement all measures to avoid any mosquito breeding in the labour camps.

## f. Environmental Quality Monitoring

### Noise (Analysis results enclosed in the Annexure - 13)

Location	Value	Standards
In the vicinity of the construction site, at the location advised by the Environment Specialist of the DSC	The observed day time noise value of 53.0 dB (A) and night time noise value of 42.0 dB (A) is found to be less than the prescribed limits in comparison with the CPCB Noise Quality Standard for <b>commercial area/ zone</b> .	CPCB noise standard for commercial area is 65 dB (A) for day time and 55 dB (A) for night time.

### Ambient Air Monitoring (Analysis results are enclosed in the Annexure - 13)

Location	Parameter	Value	Standard
In the vicinity of the construction site, at the location advised by the Environment Specialist of the DSC	PM <sub>10</sub> , µg/m <sup>3</sup>	62.8	100.0
	PM <sub>2.5</sub> , µg/m <sup>3</sup>	28.9	60.0
	Oxides of Sulphur, µg/m <sup>3</sup>	6.7	80.0
	Oxides of Nitrogen, µg/m <sup>3</sup>	22.8	80.0
	Carbon monoxide mg/m <sup>3</sup>	Not detected	2.0
	The observed AAQ values are within the regulatory standards indicating the construction activities does not have any impact on the existing air quality.		

## g. Grievance Record and Action Taken

Date	Subproject	Problem related to	Received through	Description	Status
1.	Package 13/20: : Conservation and adaptive reuse of colonial heritage in Kapurthala - Darbar Hall	None	NA	NA	No Grievances have been recorded so far.

## IX. PACKAGE T-3/9/11 CONSERVATION WORKS AT TOWN HALL, RAM BAGH AND HISTORIC BUILDINGS ALONG HERITAGE WALK IN AMRITSAR - CONSERVATION WORKS AT TOWN HALL

### a. Implementation status

S. No.	Sub Project Component/ Packages	Details of work under Package	Commence ment of Civil Works	Expected date of completion	Physical Progress till date	Type of Work presently Conducted	Remarks
1.	<b>Package T-3/9/11:</b> Conservation Works at Town Hall, Ram Bagh and Historic Buildings along Heritage Walk in Amritsar - Conservation Works at Town Hall	Conservation Works at Town Hall - <ul style="list-style-type: none"> <li>Consolidation of walls, repairs, restoration</li> <li>Conservation of doors and windows.</li> <li>Preservation of areas with historic significance</li> </ul>	15 Feb 2016	14 Aug 2017	48.0%	<ul style="list-style-type: none"> <li>Remedial measure of Verandah in progress</li> <li>MCA Building works</li> <li>Dismantling work in progress</li> <li>Toilet block work in progress</li> </ul>	Structural engineer is arranged to check the structural stability

### b. Compliance status with Government Environmental Regulations (as indicated in the IEE):

Package No	Sub Project Component/Packages	Clearance/ Approval required	Current Status
<b>Package T-3/9/11:</b> Conservation Works at Town Hall, Ram Bagh and Historic Buildings along Heritage Walk in Amritsar - Conservation Works at Town Hall	Conservation Works at Town Hall - <ul style="list-style-type: none"> <li>Consolidation of walls, repairs, restoration</li> <li>Conservation of doors and windows.</li> <li>Preservation of areas with historic significance</li> </ul>	Disposal plan for extraneous material is required.	Disposal of extraneous material is as per the plan.
		<b>Other Environmental Regulations</b>	
		Tree cutting permissions	Tree cutting is not envisaged and hence tree cutting permission is not required.
		Sourcing of construction materials (quarry and borrow materials)	The quantity of the construction materials required for this sub project is very less and it has been sourced from local authorized (licensed) vendors
		The EIA notification, 2006 (and its	Not applicable (not in the list of projects, which

Package No	Sub Project Component/Packages	Clearance/ Approval required	Current Status
		subsequent amendments)	requires Environmental Clearance)
		Water (Prevention and control of pollution) Act, 1974 and Air (prevention and control of pollution) Act, 1981	Not applicable, since there are no requirement for setting up of hot mix plants, wet mix plants, stone crushers and diesel generators.
		The Wildlife Protection Act, 1972, amended in 2003 and 2006	Not applicable, as there are no ecological sensitive areas located within or in the surroundings of the subproject site
		The Forest Conservation Act, 1980 and its subsequent amendments	Not applicable, as there are no forest areas located within or in the surroundings of the project site
		The Ancient Monuments and Archaeological Sites and Remains Act, 1958, and the rules, 1959	Not applicable, the monuments are not under the ambit of this Act

**c. Compliance status with Loan Covenant:**

Package no	Environmental Safeguard related Loan Covenants	Compliance Status
<b>Package T-3/9/11:</b> Conservation Works at Town Hall, Ram Bagh and Historic Buildings along Heritage Walk in Amritsar - Conservation Works at Town Hall	<p>The Project is undertaken, and the Project facilities are designed, constructed, implemented, operated, and maintained, in accordance with the Borrower's applicable laws and regulations; ADB's Safeguard Policy Statement (2009) and the EARP;</p> <p>The IEEs and EMPs are implemented in accordance with their terms;</p> <p>In the event that any unanticipated adverse environmental impact occurs or a mitigation measure under an IEE or EMP does not have the desired effect, this is reported to ADB, and remedial actions are taken to mitigate the relevant impacts in consultation</p>	<p>All ADB safeguards are being followed.</p> <p>IEE and EMP are being implemented in accordance with the terms of ADB.</p> <p>No unanticipated adverse environmental impact has occurred.</p>



Package no	Environmental Safeguard related Loan Covenants	Compliance Status
	<p>with the affected persons and ADB;</p> <p>Any changes to the location, land alignment, or environmental impacts on account of detailed designs of the Project facilities are mutually agreed between the Borrower and ADB, and are consistent with the eligibility criteria set forth in Schedule 4 to the FFA;</p> <p>The IEEs and EMPs are updated, as necessary, during the course of Project implementation, and submitted to ADB for clearance;</p> <p>The Works contractors are contractually obliged to implement the IEEs and the EMPs, and report on their implementation on a regular basis, along with any deviation; and</p> <p>Reports on the implementation of the IEEs and the EMPs are submitted to ADB on a biannual basis.</p>	<p>All the changes are consistent with the eligibility criteria set forth in Schedule 4 to the FFA.</p> <p>The IEEs and EMPs will be changed as necessary.</p> <p>Regular environmental monitoring is being performed and report is being submitted to ADB on biannual basis.</p>

**d. Compliance status with Subproject Selection Criteria:**

S. No.	Subproject Selection Criteria	Package T-3/9/11: Conservation Works at Town Hall, Ram Bagh and Historic Buildings along Heritage Walk in Amritsar - Conservation Works at Town Hall
1.	Site Description	The subproject is within the area available in the Town Hall.
2.	Description of proposed improvements	<ul style="list-style-type: none"> <li>• Conservation Works at Town Hall - <ul style="list-style-type: none"> <li>○ Consolidation of walls, repairs, and restoration</li> <li>○ Conservation of doors and windows; and</li> <li>○ Preservation of areas with historic significance</li> </ul> </li> </ul>
3.	Design Criteria	Steps to minimize the environmental impacts due to proposed interventions in Town Hall.

**e. Compliance status with EMMP as per IEE/EMP:**

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
1. Efficient drainage of site	Work being carried out as per plan	Satisfactory	Continuous monitoring is required.
2. Exposed steel and concrete structures to be avoided.	Designs proposed are in accordance to architectural	Satisfactory	Exposed steel and concrete are



Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
	character of place.		barricaded to avoid any safety hazard.
3. Construction work area to be demarcated on ground	Construction work area is being barricaded and separated from labour camps	Satisfactory	Continuous monitoring is required.
4. Consideration to be given for material storage at construction sites.	Adequate space allotted for material storage	Satisfactory	All reusable construction material like bricks to be stacked and covered. All loose material will be covered from all the sides.
5. Safe disposal of extraneous wastes to be ensured in the pre-identified disposal locations.	All the waste material at sites are properly disposed.	Satisfactory	Continuous monitoring is required.
6. The contractor to take precaution to reduce the level of dust at construction sites.	Sprinkling of water and covering of loose construction material is being taken up	Satisfactory	Continuous monitoring is required.
7. The waste generated will be reused in construction activities, either as a fill material or based on its suitability of reuse to maximum extent.	As per the mitigation measures the construction waste are utilised to the extent possible	Satisfactory	Continuous monitoring is required.
8. All workers employed on mixing asphaltic material, cement, lime mortars, concrete etc., will be provided with protective footwear and protective goggles.	Work being carried out as per plan	Satisfactory	Continuous monitoring will be done to ensure all the workers are using PPE's.
9. The Contractor will, at his own expense, conform to all anti-malaria instructions given to him by the Engineer	Work being carried out as per plan	Satisfactory	Contractors have been instructed to implement all measures to avoid any mosquito breeding in the labour camps.

#### f. Environmental Quality Monitoring

##### Noise (Analysis results enclosed in the Annexure - 14)

Location	Value	Standards
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In the vicinity of the construction site, at the location advised by the Environment Specialist of the DSC	The observed day time noise value of 60.8 dB (A) and night time noise value of 49.6 dB (A) is found to be less than the prescribed limits in comparison with the CPCB Noise Quality Standard for <b>commercial area/ zone</b> .	Within the CPCB standard value of 65db(A)
------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------

**Ambient Air Monitoring (Analysis results are enclosed in the Annexure - 14)**

Location	Parameter	Value	Standard
In the vicinity of the construction site, at the location advised by the Environment Specialist of the DSC	PM <sub>10</sub> , µg/m <sup>3</sup>	89.0	<b>100.0</b>
	PM <sub>2.5</sub> , µg/m <sup>3</sup>	51.0	<b>60.0</b>
	Oxides of Sulphur, µg/m <sup>3</sup>	8.9	<b>80.0</b>
	Oxides of Nitrogen, µg/m <sup>3</sup>	19.2	<b>80.0</b>
	Carbon monoxide mg/m <sup>3</sup>	Not detected	<b>2.0</b>
	The observed AAQ values are within the regulatory standards indicating the construction activities does not have any impact on the existing air quality.		

**g. Grievance Record and Action Taken**

Date	Subproject	Problem related to	Received through	Description	Status
1.	<b>Package T-3/9/11:</b> Conservation Works at Town Hall, Ram Bagh and Historic Buildings along Heritage Walk in Amritsar - Conservation Works at Town Hall	None	NA	NA	No Grievances have been recorded so far.

## **Annexure – 1**

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## Clearance from State Archaeology Department

### NO OBJECTION CERTIFICATE

It is certified that there is no objection if the proposed project Management and reuse  
plan of Aam Khas Bagh including Conservation of Boundary wall and Providing visit  
facilities at arts and Crafts Centre (Maulana) (name of the project)  
is executed by PHTPB of the Tourism Department (Punjab) as per the guide lines of

Govt. of India and ADB loan funded projects under IDIPT at Aam Khas Bagh

Drill Fatehgarh Sahib, Punjab.  
(details of land/area/ building)

Place: Changizgarh

Date: 28/8/14

Signature MRB  
Department /owner

Director,  
Central Affairs Archaeology &  
Punjab, Chandigarh  
(Official Stamp)

Counter Signed

Deputy Commissioner  
Fatehgarh Sahib  
Deputy Commissioner

(Official Stamp)

**CERTIFICATE AND UNDERTAKING**

It is certified that: -

1. The Aam Khas Bagh Distt Fatehgarh Sahib  
(details of land/area/ building) Where  
the Management and reuse plan of Aam Khas Bagh including Conservation of  
(name of the project) Boundary wall and Providing visitors facilities at arts & Craft Centre (Maul)  
project is proposed, for  
execution by PHTPB of the Tourism Department (Punjab), is under the ownership of  
Directorate of Cultural Affairs, Archaeology and Museums and is  
(Details of the owner)  
under the possession of Directorate of Cultural Affairs, Archaeology and  
(Details of possessor)  
Museums

2. There is NO encroachment and NO resettlement/displacement/rehabilitation of people involved in the above Proposed Project area/building/land.

3. The proposed Project is not Partially/Fully part of any other project funded under any other scheme/programme of the State/Central Govt. or any external funding.

4. The assets created as a result of the execution of above stated project will be taken over for operation and maintenance by Directorate of Cultural Affairs,  
(Name of the department/organization)  
Archaeology and Museums, Punjab

Place: Chandigarh  
Date: 27/8/14  
MRD

Signature MRD  
Department/Organisation/Owner  
(Official Stamp)

**Director,  
Cultural Affairs Archaeology &  
Museums, Punjab, Chandigarh**

Counter Signed

for  
**Deputy Commissioner  
(Fatehgarh Sahib)**  
for

## **Annexure – 2**

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**PACKAGE 4/3: Eco-tourism Development at Ropar and Harike Wetlands (Civil Works)**

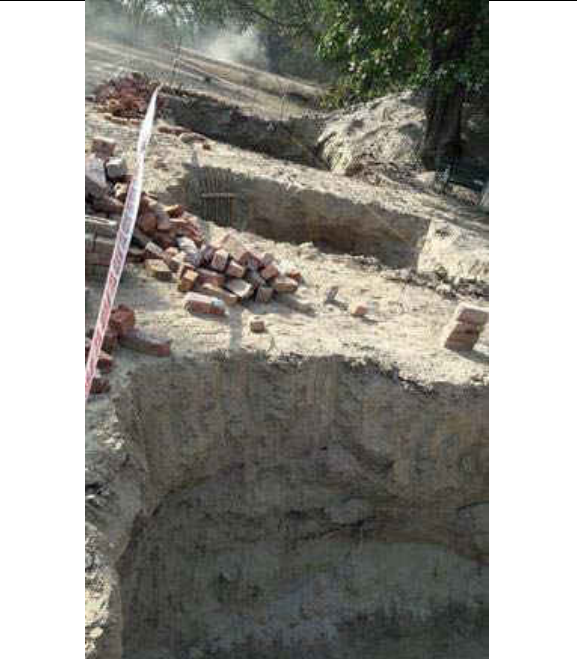
**(i) Snap Shots from Ropar site**



**(ii) Snap Shots from Harike site**









**PACKAGE 7/7: Establishment of Tourism Facilities and Infrastructure showcasing of Sikh Culture, Chamkaur Sahib (Civil Works)**



**PACKAGE 8/9: Structures Conservation at Gobindgarh Fort**



**PACKAGE 13/20: Conservation and Adaptive Reuse of Colonial Heritage in Kapurthala  
- Darbar Hall**



## **Annexure – 3**

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PACKAGE 3-12/02 - Imperial Highway Heritage Conservation and Visitor Facility Development

Noise Quality Monitoring (Tomb of Alfassani )

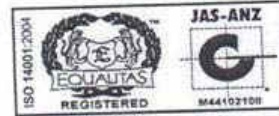


**CHANDIGARH POLLUTION TESTING LABORATORY**  
(Environmental Monitoring, EIA, NOC, ETP, STP)

Website : [www.cptl.co.in](http://www.cptl.co.in)

H.O. : #372, Sec. 15-A, Chandigarh-160 015 ☎ : 0172-4689295

Lab : E-126, Phase-VII, Indl. Area, Mohali - 160055 ☎ : 0172-5090312; e-mail : [sital\\_cptlmohali@yahoo.co.in](mailto:sital_cptlmohali@yahoo.co.in), [cptle126@gmail.com](mailto:cptle126@gmail.com), [lab@cptl.co.in](mailto:lab@cptl.co.in)



NABET accredited EIA consultant, MoEF & CC & PPCB recognized, ISO 9001 : 2008, ISO 14001:2004 and OHSAS 18001:2007 certified laboratory

TEST CERTIFICATE

REPORT NO: IH/2017/03/02 (N)

REPORTING DATE: 08.03.2017

NAME OF INDUSTRY: M/s. IMPERIAL HIGHWAYS HERITAGE CONSERVATION, & VISITOR FACILITIES, DEVELOPMENT LOT NO. - II, CONSERVATION OF TOMBS & RAUZA SHARIF, IN FATEHGARH SAHIB (PB.).

SAMPLE PARTICULARS

Sampling Plan Ref. No:	CPTL/NM/08	Type of Sample:	Air Quality w.r.t Noise
Date of Monitoring:	03-03-2017	Sampling Location:	Surrounding of Alfassani Tomb
Sample Identification No:	CPTL/SPL/PB/2017/03/04 (AN)	Environmental Conditions:	Clear Sky
Nature of Sample:	Noise Level	Monitoring Done By:	Chirag Jamwal

S. No.	Location (Silence Zone)	Value in dB(A) Average		Test Method
		Day Time (1 Hour)	Night Time (1 Hour)	
01.	Surrounding of Alfassani Tomb	43.1	35.6	CPCB/OSHA
Prescribed Standard		50	40	--

(Chemist In-Charge)

Date: 08/03/2017

(Authorized Sign.)

Date: 10/03/2017

Chandigarh Pollution Testing Lab

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- Sample will be destroyed after retention time unless otherwise specified.



## Air Quality Monitoring (Tomb of Alfassani )



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Lab : E-126, Phase-VII, Indl. Area, Mohali - 160055 ☎ : 0172-5090312; e-mail : [sital\\_cptlmohali@yahoo.co.in](mailto:sital_cptlmohali@yahoo.co.in), [cptle126@gmail.com](mailto:cptle126@gmail.com), [lab@cptl.co.in](mailto:lab@cptl.co.in)



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ISO 9001 : 2008, ISO 14001:2004 and OHSAS 18001:2007 certified laboratory

### TEST CERTIFICATE

REPORT NO: IH/2017/03/01 (A)

REPORTING DATE: 08.03.2017

**NAME OF INDUSTRY:** M/s IMPERIAL HIGHWAYS HERITAGE CONSERVATION,  
& VISITOR FACILITIES, DEVELOPMENT LOT NO. - II,  
CONSERVATION OF TOMBS & RAUZA SHARIF,  
IN FATEHGARH SAHIB (PB.)

### SAMPLE PARTICULARS

Sampling Plan Ref. No.:	CPTL/AAM/06	Type of Sample:	Air Quality
Period of Sampling.:	03-03-2017	Location of Sampling:	Surrounding of Alfassani Tomb
Date of Sample Collection.:	04-03-2017	Environmental Conditions:	Clear Sky
Sample Identification No.:	CPTL/SPL/PB/2017/03/03(A)	Analysis Duration:	04-03-2017 to 08-03-2017
Nature of Sample:	Ambient Air	Sample Collected By:	Chirag Jamwal

### TECHNICAL DATA

1.	Location of sampling station	Surrounding of Alfassani Tomb
2.	Instrument used for sampling	RDS & FPS
3.	Flow rate of sampling for PM <sub>10</sub>	1.14 m <sup>3</sup> /min
4.	Flow rate of sampling for PM <sub>2.5</sub>	1.0 m <sup>3</sup> /hour
5.	Flow rate of sampling for Gases	1.0 LPM
6.	Time period for sampling	480 minutes

PARAMETERS	RESULTS	PRESCRIBED STANDARD AS PER NOTIFICATION, 18 <sup>TH</sup> NOVEMBER, 2009	TEST METHOD
Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	62.1	100	IS 5182 (P-23): 2006, (RA - 2012)
Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	34.9	60	SP 61 Issue Date-04-08-2012
Sulphur dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	9.9	80	IS 5182 (P-2): 2001, (RA - 2012)
Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	24.5	80	IS 5182 (P-6): 2006, (RA - 2012)
Carbon monoxide (CO), mg/m <sup>3</sup>	0.71	4	IS 5182 (P-10): 1999, (RA - 2009)

(Chemist In-Charge)

Date: 08/03/2017

(Authorized Sign)

Date:

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- Sample will be destroyed after retention time unless otherwise specified.

## Noise Quality Monitoring (Tomb of Bibi Taj)



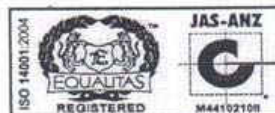
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NABET accredited EIA consultant, MoEF & CC & PPCB recognized,  
ISO 9001 : 2008, ISO 14001:2004 and OHSAS 18001:2007 certified laboratory

### TEST CERTIFICATE

REPORT NO: IH/2017/03/02 (AN)

REPORTING DATE: 08.03.2017

NAME OF INDUSTRY: M/s. IMPERIAL HIGHWAYS HERITAGE CONSERVATION,  
& VISITOR FACILITIES, DEVELOPMENT LOT NO. - II,  
CONSERVATION OF TOMBS & RAUZA SHARIF,  
IN FATEHGARH SAHIB (PB.)

### SAMPLE PARTICULARS

Sampling Plan Ref. No:	CPTL/NM/08	Type of Sample:	Air Quality w.r.t Noise
Date of Monitoring:	03-03-2017	Sampling Location:	Surrounding of Bibi Taj
Sample Identification No:	CPTL/SPL/PB/2017/03/02 (AN)	Environmental Conditions:	Clear Sky
Nature of Sample:	Noise Level	Monitoring Done By:	Chirag Jamwal

S. No.	Location (Silence Zone)	Value in dB(A) Average		Test Method
		Day Time (1 Hour)	Night Time (1 Hour)	
01.	Surrounding of Bibi Taj	44.6	35.9	CPCB/OSHA
Prescribed Standard		50	40	

(Chemist In-Charge)  
 Date: 08/03/2017

(Authorized Sign.)  
 Date: 10/03/2017  
 Sital Singh  
 CEO

- The results are related to test items only.
- This certificate is not to be reproduced wholly or in part and cannot be used as evidence in the court of law.
- Sample will be destroyed after retention time unless otherwise specified.

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## Air Quality Monitoring (Tomb of Bibi Taz)



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H.O. : #372, Sec. 15-A, Chandigarh-160 015 ☎ : 0172-4669295

Lab : E-126, Phase-VII, Indl. Area, Mohali - 160055 ☎ : 0172-5090312; e-mail : [sital\\_cptlmohali@yahoo.co.in](mailto:sital_cptlmohali@yahoo.co.in), [cptle126@gmail.com](mailto:cptle126@gmail.com), [lab@cptl.co.in](mailto:lab@cptl.co.in)



NABET accredited EIA consultant, MoEF & CC & PPCB recognized,  
ISO 9001 : 2008, ISO 14001:2004 and OHSAS 18001:2007 certified laboratory

### TEST CERTIFICATE

REPORT NO: IH/2017/03/01 (A)

REPORTING DATE: 08.03.2017

NAME OF INDUSTRY: M/s. IMPERIAL HIGHWAYS HERITAGE CONSERVATION,  
& VISITOR FACILITIES, DEVELOPMENT LOT NO. - II,  
CONSERVATION OF TOMBS & RAUZA SHARIF,  
IN FATEHGARH SAHIB (PB.)

### SAMPLE PARTICULARS

Sampling Plan Ref. No.:	CPTL/AAM/06	Type of Sample:	Air Quality
Period of Sampling.:	03-03-2017	Location of Sampling:	Surrounding of Bibi Taj Tomb
Date of Sample Collection.:	04-03-2017	Environmental Conditions:	Clear Sky
Sample Identification No.:	CPTL/SPL/PB/2017/03/01(A)	Analysis Duration:	04-03-2017 to 08-03-2017
Nature of Sample:	Ambient Air	Sample Collected By	Chirag Jamwal

### TECHNICAL DATA

1.	Location of sampling station	Surrounding of Bibi Taj Tomb
2.	Instrument used for sampling	RDS & FPS
3.	Flow rate of sampling for PM <sub>10</sub>	1.13 m <sup>3</sup> /min
4.	Flow rate of sampling for PM <sub>2.5</sub>	1.0 m <sup>3</sup> /hour
5.	Flow rate of sampling for Gases	1.0 LPM
6.	Time period for sampling	480 minutes

PARAMETERS	RESULTS	PRESCRIBED STANDARD AS PER NOTIFICATION, 18 <sup>TH</sup> NOVEMBER, 2009	TEST METHOD
Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup>	64.3	100	IS 5182 (P-23): 2006, (RA - 2012)
Particulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup>	35.7	60	SP 61 Issue Date-04-08-2012
Sulphur dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	8.1	80	IS 5182 (P-2): 2001, (RA - 2012)
Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	28.6	80	IS 5182 (P-6): 2006, (RA - 2012)
Carbon monoxide (CO), mg/m <sup>3</sup>	0.75	4	IS 5182 (P-10):1999, (RA - 2009)

(Chemist In-Charge)

Date:

08/03/2017

(Authorized Sign)

Date:


10/03/2017

- The results are related to test items only.
- This certificate is not to be reproduced wholly or in part and cannot be used as evidence in the court of law.
- Sample will be destroyed after retention time unless otherwise specified.



# Noise Quality Monitoring (Near old hotel, Nav Ghar and Mehtabi Bhag )

Service Tax No. BPEP5909PSD001  
 PAN No. BPEP5909P



## ENVIRON TECH LABORATORIES

(NABL ACCREDITED LAB.)

Certificate No. T-1947

Plot No: 62, 1st Floor, ILPI Industrial Area, Sector 82, Airport Road, S.A.S. Nagar (Mohali) Pb.

Tele : 9463000081, Mob: 94172-10081, Email : envrontechlab72@yahoo.com

Dated : 10/05/2017

Ref. No. : .....

### TEST REPORT

To  
 M/s Raj Putana Construction Pvt. Ltd.  
 Const. of Imperial Highway Heritage Conservation  
 & Visitor Facility Development.  
 Lot No.1 Conservation Aam Khas Bagh,  
 Fatehgarh Sahib (Pb)

Report Date	: 10.05.2017	Report No.	: ETL/26/2017-18/287
Your Ref. No	: NIL	Type of Sample	: Ambient Noise Level Monitoring
Sample ID.	: ETL/05/2017-18/254	Date of Monitoring	: 02.05.2017


#### TECHNICAL DATA


Name of Site		Aam Khas Bagh, Fatehgarh Sahib (Pb)		
Instrument Used for Monitoring		Noise Level Meter		

SR. NO.	LOCATION/AREA	RESULTS dB(A) LEQ		LIMITS IN dB(A) LEQ	TEST METHOD
1.	Near Nav Ghar Area	Day Time	52 dB (A)	55 dB (A)	IS:9989-1981
		Night Time	40 dB (A)	45 dB (A)	Reaff:2001
2.	Near Old Hotel Area	Day Time	53 dB (A)	55 dB (A)	IS:9989-1981
		Night Time	39 dB (A)	45 dB (A)	Reaff:2001
3.	Near Mehtabi Bagh Area	Day Time	51 dB (A)	55 dB (A)	IS:9989-1981
		Night Time	40 dB (A)	45 dB (A)	Reaff:2001

Note: All Parameters are within limit as prescribed by the CPCB Guidelines -2010.

1. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.





**AUTHORIZED SIGNATORY**

RAAMESHWAR KUMAR  
 Technical Manager  
 Environ Tech Laboratories

Testing of Water, Waste Water, Industrial Effluent, Soil, Monitoring of Ambient Air, Stack Emission & Noise



# Air Quality Monitoring (Near Nav Ghar)



Service Tax No. BPEPS9683P50001  
PAN No. BPEPS9683P

## ENVIRON TECH LABORATORIES (NABL ACCREDITED LAB.)

Certificate No. T-1947

Plot No. 62, 1st Floor, JLPL Industrial Area, Sector 82, Airport Road, S.A.S. Nagar (Mohali) Pb.  
Tele : 9463000081, Mob. 94172-10081, Email : envirotechlab72@yahoo.com

Ref. No. : .....

Dated : 10/05/2017

### TEST REPORT

To  
M/s Raj Putana Construction Pvt. Ltd.  
Const. of Imperial Highway Heritage Conservation  
& Visitor Facility Development.  
Lot No.1 Conservation Aam Khas Bagh,  
Fatehgarh Sahib (Pb)

Report Date	: 10.05.2017	Report No.	: ETL/26/2017-18/284
Your Ref.No	: NIL	Type of Sample	: Ambient Air Sample
Sample I.D.	: ETL/05/2017-18/251	Date of Sampling	: 02.05.2017 to 03.05.2017
		Date of Sample Receipt	: 03.05.2017
		Date of test	: 04.05.2017 to 10.05.2017

### TECHNICAL DATA

1	Name of Site	Aam Khas Bagh, Fatehgarh Sahib (Pb)
2	Location of Sampling Station	Near Nav Ghar
3	Instrument Used for Sampling	Respirable Dust Sampler-1
4	Source of Sampling	Ambient Air
5	Temperature of Sampling Location	38°C
6	Environmental Condition	Max temp. 42°C Min temp. 36°C Clear sky and wind direction west to east
7	Flow Rate of Sampling	1.0 LPM
8	Time Period for Sampling	1440 Minutes
9	Volume of Air Sampled	1.44 m <sup>3</sup>

### RESULTS

S.NO	PARAMETER (µg/m <sup>3</sup> )	RESULT	STANDARD (µg/m <sup>3</sup> )	TEST METHOD
1	PM <sub>10</sub>	62.5	100.0	IS:5182(Pt-23)-2006
2	PM <sub>2.5</sub>	29.4	60.0	Gravimetric method and CPCB Guidelines
3	SO <sub>2</sub>	9.2	80.0	IS:5182(Pt-2)-2001
4	NO <sub>2</sub>	20.8	80.0	IS:5182(Pt-6)-2006
5	CO mg/m <sup>3</sup>	ND	2.0 mg/m <sup>3</sup>	CPCB Guidelines-2010

Note: All Parameters are within limit as prescribed by the CPCB Guidelines -2010.  
ND: Not Detectable

1. Sample consumed in testing.
2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.



*Raneshwar Kumar*  
AUTHORIZED SIGNATORY  
RANESHWAR KUMAR  
Technical Manager  
Environ Tech Laboratories

Testing of Water, Waste Water, Industrial Effluent, Soil, Monitoring of Ambient Air, Stack Emission & Noise

## **Annexure – 4**

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## NoC for Ropar Wetlands

ਨੰ: 1025/ਸਭਮਪ(ਰ) ਮਿਤੀ 21-11-2013  
ਵੱਲੋਂ

ਸਹਾਇਕ ਡਾਇਰੈਕਟਰ ਮੱਛੀ ਪਾਲਣ,  
ਰੂਪਨਗਰ।

ਸੇਵਾਵਿਖੇ,

ਚੀਫ ਜਨਰਲ ਮੈਨੇਜਰ,  
ਪੰਜਾਬ ਹੈਰੀਟੇਜ਼ ਐਂਡ ਟੂਰਿਜ਼ਮ ਪ੍ਰਮੋਸ਼ਨ ਬੋਰਡ,  
ਚੰਡੀਗੜ੍ਹ।

ਵਿਸ਼ਾ: Finalization of IDIPT- ADB Tranche-2, Projects.

ਹਵਾਲਾ: ਆਪ ਜੀ ਦਾ ਪੱਤਰ ਨੰ: PHTPB/IDIPT/2013/Tr-2/229/2494 ਮਿਤੀ 11-11-2013

ਪ੍ਰੋਪਰੈਕਟ ਵਿਸ਼ੇ ਤੇ ਹਵਾਲੇ ਅਪੀਨ ਪੱਤਰ ਦੇ ਸਬੰਧ ਵਿੱਚ ਆਪ ਜੀ ਨੂੰ ਸੂਚਿਤ ਕੀਤਾ ਜਾਂਦਾ ਹੈ, ਕਿ ਟੂਰਿਜ਼ਮ ਵਿਭਾਗ ਵੱਲੋਂ ਮੱਛੀ ਪ੍ਰੋਗ ਫਾਰਮ ਕੰਟਰੋਲ ਵਿਖੇ ਐਕੁਏਰੀਅਮ-ਕਮ-ਅਵੇਅਰਨੈਸ ਸੈਂਟਰ ਦੀ ਸਥਾਪਨਾ ਕਰਨ ਲਈ ਮਾਨਯੋਗ ਮੁੱਖ ਸਕੱਤਰ ਪੰਜਾਬ ਜੀ ਦੀ ਪ੍ਰਧਾਨਗੀ ਹੇਠ ਮਿਤੀ 26-3-2008 ਨੂੰ ਹੋਈ ਮੀਟਿੰਗ ਵਿੱਚ ਲਏ ਗਏ ਫੈਸਲੇ ਅਨੁਸਾਰ ਸਕੱਤਰ ਪਸ਼ੂ ਪਾਲਣ, ਮੱਛੀ ਪਾਲਣ ਅਤੇ ਡੇਅਰੀ ਵਿਕਾਸ ਵਿਭਾਗ ਜੀ ਵੱਲੋਂ ਡਾਇਰੈਕਟਰ ਟੂਰਿਜ਼ਮ ਪੰਜਾਬ ਚੰਡੀਗੜ੍ਹ ਜੀ ਨੂੰ ਪ੍ਰਧਾਨਗੀ ਦਿੱਤੀ ਜਾ ਚੁੱਕੀ ਹੈ (ਪੱਤਰ ਦੀ ਨਕਲ ਨੱਥੀ ਹੈ)। ਪਾਰਜਿੰਗ ਲਈ ਜਗ੍ਹਾ ਅਤੇ ਪਾਥ ਵੇਅ ਬਨਾਉਣ ਸਬੰਧੀ ਮਾਨਯੋਗ ਵਿੱਤੀ ਕਮਿਸ਼ਨਰ ਪਸ਼ੂ ਪਾਲਣ, ਮੱਛੀ ਪਾਲਣ ਅਤੇ ਡੇਅਰੀ ਵਿਕਾਸ ਵਿਭਾਗ ਪੰਜਾਬ ਜੀ ਦੀ ਪ੍ਰਧਾਨਗੀ ਹੇਠ ਮਿਤੀ 17-7-2009 ਨੂੰ ਮਿਲੀ ਸਕੱਤਰ ਚੰਡੀਗੜ੍ਹ ਵਿਖੇ ਹੋਈ ਮੀਟਿੰਗ ਵਿੱਚ ਲਏ ਗਏ ਫੈਸਲੇ ਅਨੁਸਾਰ ਇਜਾਜ਼ਤ ਦੇ ਦਿੱਤੀ ਗਈ ਸੀ (ਕਾਰਵਾਈ ਦੀ ਕਾਪੀ ਨੱਥੀ ਹੈ) ਅਤੇ ਡਾਇਰੈਕਟਰ ਏ ਵਾਰਡਨ ਮੱਛੀ ਪਾਲਣ, ਵਿਭਾਗ ਪੰਜਾਬ ਜੀ ਦੇ ਆਪ ਜੀ ਵੱਲੋਂ ਮੀਮੋ ਨੰ: 12/3/09/ਐਫ.ਈ.ਓ/ਜੀਏ/11971 ਮਿਤੀ 25-9-09 ਰਾਹੀਂ ਇਤਰਾਜ਼ੀਤਾ ਸਰਟੀਫਿਕੇਟ ਜਾਰੀ ਕੀਤਾ ਜਾ ਚੁੱਕਾ ਹੈ, ਜੀ (ਕਾਪੀ ਨੱਥੀ ਹੈ)।

ਇਸ ਆਪ ਜੀ ਦੇ ਧਿਆਨ ਵਿੱਚ ਲਿਆਇਆ ਜਾਂਦਾ ਹੈ, ਕਿ ਆਪ ਜੀ ਦੇ ਵਿਭਾਗ ਵੱਲੋਂ ਮੱਛੀ ਪ੍ਰੋਗ ਫਾਰਮ ਕੰਟਰੋਲ (ਰੂਪਨਗਰ) ਵਿਖੇ ਐਕੁਏਰੀਅਮ-ਕਮ-ਅਵੇਅਰਨੈਸ ਸੈਂਟਰ ਦੀ ਉਸਾਰੀ ਦਾ ਕੰਮ ਜੁਲਾਈ 2012 ਦੇ ਆਖਰੀ ਹਫਤੇ ਸ਼ੁਰੂ ਕੀਤਾ ਗਿਆ ਸੀ ਅਤੇ ਇੱਕ ਹਫਤੇ ਬਾਦ ਹੀ ਇਹ ਕੰਮ ਬੰਦ ਕਰ ਦਿੱਤਾ ਗਿਆ। ਇਹ ਆਪ ਜੀ ਦੀ ਸੂਚਨਾ ਤੇ ਅਗਲੇਰੀ ਕਾਰਵਾਈ ਹਿੱਤ ਹੈ, ਜੀ।

ਨੱਥੀ ਉਕਤ ਅਨੁਸਾਰ

  
ਸਹਾਇਕ ਡਾਇਰੈਕਟਰ ਮੱਛੀ ਪਾਲਣ,  
ਰੂਪਨਗਰ।

ਪਿੱਠ ਅੰਕਣ ਨੰ: 1025/ਸਭਮਪ(ਰ) ਮਿਤੀ 21-11-2013

ਉਤਾਰਾ ਡਾਇਰੈਕਟਰ ਤੇ ਵਾਰਡਨ ਮੱਛੀ ਪਾਲਣ ਵਿਭਾਗ, ਪੰਜਾਬ ਚੰਡੀਗੜ੍ਹ ਜੀ ਨੂੰ ਉਨ੍ਹਾਂ ਦੇ ਇਸ ਦਫਤਰ ਵੱਲ ਮੀਮੋ ਨੰ: 12/3/09/ਐਫ.ਈ.ਓ/ਜੀਏ/12063 ਮਿਤੀ 19-11-2013 ਦੇ ਸਬੰਧ ਵਿੱਚ ਸੂਚਨਾ ਹਿੱਤ ਭੇਜਿਆ ਜਾਂਦਾ ਹੈ, ਜੀ।

  
ਸਹਾਇਕ ਡਾਇਰੈਕਟਰ ਮੱਛੀ ਪਾਲਣ,  
ਰੂਪਨਗਰ।

2/2

DATE : DECEMBER 18, 2013

**NO OBJECTION CERTIFICATE & UNDERTAKINGS**

I do hereby certify that the Department of forests and Wildlife Preservation, Punjab has no objection in recommending the proposed project to be taken under IDIPT-PB for execution and development as per the guidelines laid by GOI and ADB for loan funded projects for the states of Punjab.

I hereby certify that; *(Ropar Eco-Tourism Project)*

- 1) The Proposed project Area/Building /Land ( Ropar Wet Land Wildlife Sanctuary) is under the ownership of Punjab Forest Department and presently under the possession of Department of Forest and Wildlife Preservation .
- 2) The Proposed Project Area /Building/Land is free from all encumbrances ( Legal/Circumstantial)
- 3) There is no Resettlement / Displacement / Rehabilitation of people involved in the above proposed project Area/Building /Land
- 4) The Proposed Project Area /Building/Land is not Partially / Fully part of any other project funded under State Govt/GOI/External funding schemes
- 5) This Department will taken operation and maintenance of the assets created as a result of the development /execution of the proposed project under the IDIPT.

*A/*  
*D for WIL*  
*Ropar*

*(Signature)*  
Chief Wildlife Warden  
Head of the department  
( Name of the department)  
Punjab, *(Signature)*



NoC for Harike Wetlands

260  
30-5-13

1705  
13161217

Government of Punjab  
Department of Forests and Wildlife Preservation  
O/o Chief Wildlife Warden, Punjab,  
Forest Complex, 2nd Floor, 2 No. Tower,  
Sector - 68, Ajitgarh (Mohali)  
Phone: 0172-2298010, 2298000 (Ext. 2201)  
Fax: 0172-2298036.

No: 1190.

To

The Project Director,  
IDIPT, Chandigarh.

Dated: 27/5/13.

Subject Project on Development of Ferozepur as a Tourism Destination - Harike Wildlife Sanctuary through IDIPT for Punjab to be taken up in Tranche-2 ADB Project.

Reference In continuation of this office letter No. 7018 dated 25.3.2013

\*\*\*\*\*

A copy of above cited Project is submitted for your consideration. Total Project Cost is ₹114.56 lacs. This Project was prepared by Divisional Forest Officer (Wildlife), Harike and thoroughly discussed at District Level Committee. The Project was further scrutinized on 10.5.2013 at joint meeting between Forest Department and IDIPT. It is further submitted that:

1. This department strongly recommends this Project.
2. This department has no objection if the Project is taken up with the assistance of ADB.
3. The department will take operation and maintenance responsibility of assets created through this Project.
4. It is certified that no resettlement of people is involve in implementation of this Project.

Encl. As above.

Chief Wildlife Warden,  
Punjab, Ajitgarh.

Much better! desirable! Examine  
the kind out where are all  
the trees that were in Ropon

4-6-13

PM (R)

Handwritten signature: Shripendra

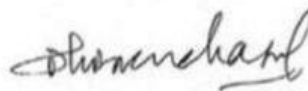
**DATE: MAY 23, 2013**

**NO OBJECTION CERTIFICATE & UNDERTAKINGS**

I do hereby certify that the Department of Forests and Wildlife Preservation, Punjab has no objection in recommending the proposed project to be taken under IDIPT-PB, PHTPB for execution and development as per the guidelines laid by GoI and ADB for loan funded projects for the State of Punjab.

I hereby certify that;

- ☐ The Proposed Project Area/ Building/ Land (Harike Wildlife Sanctuary) is under the ownership of Punjab Forest Department and presently under the possession of Department of Forests and Wildlife Preservation.
- ☐ The Proposed Project Area/ Building/ Land is free from all encumbrances (Legal/Circumstantial).
- ☐ There is no Resettlement/ Displacement/ Rehabilitation of people involved in the above Proposed Project Area/ Building/ Land
- ☐ The Proposed Project Area/ Building/ Land is not Partially/ Fully part of any other project funded under State Govt/GoI/External funding schemes.
- ☐ This department will take operation and maintenance of the assets created as a result of the development/execution of the proposed project under the IDIPT.



**Head of the department  
(Name of the department)**

## **Annexure – 5**

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**Ropar Wetland - Noise Quality Monitoring**

PAN No. BPEPS8693P

**ENVIRON TECH LABORATORIES**  
**NABL ACCREDITED & PPCB RECOGNISED**

 Plot No. 62, 1st Floor, JLPL Industrial Area, Airport Road, Sector 82, S.A.S. Nagar (Mohali) Pb.  
 Tele : 9463000081, Mob. 94172-10081, Email : envrontechlab72@yahoo.com
Ref. No. ETL/DSP/25/1718/12Dated : 5/7/2017**TEST REPORT**

REPORT NO. ETL/25E/2017-18/12A

Date-05.07.2017

1.	Laboratory Sample No.	ETL/05/2017-18/494A
2.	Name of Industry	M/S Brightway Contractor and Developers, PK Verma & CO.(JV), Ropar, Punjab
3.	Type of Sample	Noise Monitoring (Day)
4.	Date of Monitoring	30.06.2017

Sr. No.	Location	Results (Leq)	Standards (Leq)	Test Method
1	Average Around Project Site(DAY)	55.8	65(DAY)	IS:9989 Ref.2001
2	Average Around Project Site(NIGHT)	48.7	55(NIGHT)	IS:9989 Ref.2001

**Note:**

1. The test report refers only to tested sample and applicable parameters.
2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.



(Authorized Signatory)

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



## Ropar Wetland - Ambient Air Quality



PAN No. BPEPS9693P

### ENVIRON TECH LABORATORIES NABL ACCREDITED & PPCB RECOGNISED

Plot No. 62, 1st Floor, JLPL Industrial Area, Airport Road, Sector 82, S.A.S. Nagar (Mohali) Pb.

Tele : 9463000081, Mob. 94172-10081, Email : envrontechlab72@yahoo.com

Ref. No. ETL/DSP/25/1718/12

Dated : 5/7/2017

#### ANALYSIS REPORT

REPORT NO. ETL/25C/2017-18/12

Date-05.07.2017

1.	Laboratory Sample No.	ETL/05/2017-18/494
2.	Name of Industry	M/S Brightway Contractor and Developers, PK Verma & CO.(JV), Ropar, Punjab
3.	Type of Sample	Ambient Air Monitoring
4.	Date of Sample Collection	30.06.2017

#### TECHNICAL DATA & RESULTS

- 1) Location of sampling station : Near Interpretation Centre  
 2) Instrument used for sampling : Respirable Dust Sampler  
 3) Average Manometer Reading : 1.28 m<sup>3</sup>/Min  
 4) Time period for sampling : 480 Minute  
 5) Volume of Air Sampled : 0.614 m<sup>3</sup>

	PARAMETERS	RESULTS	STANDARD	TEST METHOD
1.	PM <sub>10</sub>	86	100.0 µg/m <sup>3</sup>	IS:5182(P-23)
2.	SO <sub>2</sub>	6	80.0 µg/m <sup>3</sup>	IS:5182(P-2)
3.	NO <sub>2</sub>	9	80.0 µg/m <sup>3</sup>	IS:5182(P-6)
4.	PM <sub>2.5</sub>	39	60.0 µg/m <sup>3</sup>	IS:5182(P-4)
5.	CO	ND	4.0 mg/m <sup>3</sup>	IS:5182(P-10)
6.	Nickel (Ni)	ND	20.0 ng/m <sup>3</sup>	BY AAS
7.	Arsenic (As)	ND	6.0 ng/m <sup>3</sup>	BY AAS
8.	Lead (Pb)	ND	1.0 µg/m <sup>3</sup>	IS:5182(P-22)
9.	Benzene (C <sub>6</sub> H <sub>6</sub> )	ND	5.0 µg/m <sup>3</sup>	IS:5182(P-11)
10.	Benzo(a)pyrene (BaP)	ND	1.0 ng/m <sup>3</sup>	BY G.C
11.	Ammonia (NH <sub>3</sub> )	ND	400.0 µg/m <sup>3</sup>	APHA-Air (401)
12.	Ozone (O <sub>3</sub> )	ND	180.0 µg/m <sup>3</sup>	CPCB Guideline

**Note:** ND denotes Not Detectable,

- The test report refers only to tested sample and applicable parameters.
- This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.



(Authorized Signatory)

**\*End of Report\***

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Ambient Noise & Stack Emission

# Harike Wetland – Noise Quality Monitoring



## ENVIRON TECH LABORATORIES NABL ACCREDITED & PPCB RECOGNISED

Plot No. 62, 1st Floor, JLPL Industrial Area, Airport Road, Sector 82, S.A.S. Nagar (Mohali) Pb.  
Tele : 9463000081, Mob. 94172-10081, Email : envrontechlab72@yahoo.com

PAN No. BPEPS9653P

Ref. No. ETL/DSP/25/1718/14

Dated : 5/7/2017

### TEST REPORT

REPORT NO. ETL/25E/2017-18/14A

Date-05.07.2017

1.	Laboratory Sample No.	ETL/05/2017-18/496A
2.	Name of Industry	M/S Brightway Contractor and Developers, PK Verma & CO.(JV), Amritsar, Punjab
3.	Type of Sample	Noise Monitoring (Day)
4.	Date of Monitoring	30.06.2017

Sr. No.	Location	Results (Leq)	Standards (Leq)	Test Method
1	Average Around Project Site(DAY)	58.5	65(DAY)	IS:9989 Ref:2001
2	Average Around Project Site(NIGHT)	49.3	55(NIGHT)	IS-9989 Ref:2001

**Note:**

1. The test report refers only to tested sample and applicable parameters.
2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.



*Rameshwar Kumar*  
(Authorized Signatory)

RAMESHWAR KUMAR  
Technical Manager  
Environ Tech Laboratories

\*\*End of Report\*\*

# Harike Wetland – Ambient Air Quality



## ENVIRON TECH LABORATORIES NABL ACCREDITED & PPCB RECOGNISED

Plot No. 62, 1st Floor, JPL Industrial Area, Airport Road, Sector 82, S.A.S. Nagar (Mohali) Pb.  
Tele : 9463000081, Mob. 94172-10081, Email : envrontechlab72@yahoo.com

PAN No. BPEPS2693F

Ref. No. ETL/OSP/25/1718/14

Dated: 5/7/2017

### ANALYSIS REPORT

REPORT NO. ETL/ZSC/2017-18/14

Date-05.07.2017

1.	Laboratory Sample No.	ETL/05/2017-18/496
2.	Name of Industry	M/S Brightway Contractor and Developers, PK Verma & CO. (JV), Amritsar, Punjab
3.	Type of Sample	Ambient Air Monitoring
4.	Date of Sample Collection	30.06.2017

#### TECHNICAL DATA & RESULTS

- 1) Location of sampling station : Near Interpretation Centre  
 2) Instrument used for sampling : Respirable Dust Sampler  
 3) Average Manometer Reading : 1.32 m<sup>3</sup>/Min  
 4) Time period for sampling : 480 Minute  
 5) Volume of Air Sampled : 0.633 m<sup>3</sup>

	PARAMETERS	RESULTS	STANDARD	TEST METHOD
1.	PM <sub>10</sub>	79	100.0 µg/m <sup>3</sup>	IS:5182(P-23)
2.	SO <sub>2</sub>	7	80.0 µg/m <sup>3</sup>	IS:5182(P-2)
3.	NO <sub>2</sub>	10	80.0 µg/m <sup>3</sup>	IS:5182(P-6)
4.	PM <sub>2.5</sub>	36	60.0 µg/m <sup>3</sup>	IS:5182(P-4)
5.	CO	ND	4.0 mg/m <sup>3</sup>	IS:5182(P-10)
6.	Nickel (Ni)	ND	20.0 ng/m <sup>3</sup>	BY AAS
7.	Arsenic (As)	ND	6.0 ng/m <sup>3</sup>	BY AAS
8.	Lead (Pb)	ND	1.0 µg/m <sup>3</sup>	IS:5182(P-22)
9.	Benzene (C <sub>6</sub> H <sub>6</sub> )	ND	5.0 µg/m <sup>3</sup>	IS:5182(P-11)
10.	Benzo(a)pyrene (BaP)	ND	1.0 ng/m <sup>3</sup>	BY G.C
11.	Ammonia (NH <sub>3</sub> )	ND	400.0 µg/m <sup>3</sup>	APHA-Air (401)
12.	Ozone (O <sub>3</sub> )	ND	180.0 µg/m <sup>3</sup>	CPCB Guideline

**Note:** ND denotes Not Detectable.

- The test report refers only to tested sample and applicable parameters.
- This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.



*Rameshwar Kumar*  
(Authorized Signatory)

RAMESHWAR KUMAR  
Technical Manager  
Environ Tech Laboratories

**\*End of Report\***

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Ambient Noise & Stack Emission

## **Annexure – 6**

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Minutes of the Meeting with Forest Department

Punjab Heritage and Tourism Promotion Board  
Infrastructure Development Investment Programme for Tourism (PB)  
(ADB Assisted Project)  
Project Implementation Unit – Ropar  
# 320, Giani Zial Singh Nagar, Ropar, Ph – 1881-220345  
Email:piu.ropar@gmail.com

To,  
The Deputy Team Leader (DSC),  
House No. 221, Giani Zial Singh Nagar,  
Ropar

No. PIU-Ropar/Tr-3/2016/ 269/434


dated 28/03/2016

Sub: Eco – Tourism Development of Wildlife Zoo [PB/IDIPT/T3/05/04] variation

Ref.: letter from APD No. 7245 dated 08.03.2016 received in this office on 28.03.2016

Please find enclosed herewith minutes of the meeting held with officials of the forest department GOP on 05.02.2016 under the chairmanship of worthy APD. In the above minutes principle approval for the components to be dropped and added/modified in the package cited as subject has also been given by the APD.

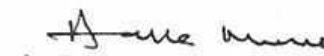
Accordingly you are advised to prepare the variation proposal with detailed calculations as per actual site conditions and norms so that the same can be submitted for its approval to the higher authority.

  
Project Manager,  
PIU – Ropar

No. PIU-Ropar/Tr-3/2016/ 269/435/436/437

dated 28/03/2016

Copy to: 1. APD, PHTPB, IDIPT, Chandigarh w.r.t. his letter No. 7245 dated 08.03.2016 for information please.  
2. CGM, PMU, IDIPT, Chandigarh for information please.  
3. TL, PMC, PHTPB, IDIPT, Chandigarh for information please.

  
Project Manager,  
PIU – Ropar



**PUNJAB HERITAGE AND TOURISM PROMOTION BOARD**  
INFRASTRUCTURE DEVELOPMENT INVESTMENT PROGRAM FOR TOURISM (IDIPT)  
PLOT NO. 3, SECTOR-38A, (ADB ASSISTED PROJECT) CHANDIGARH

To

Project Manager  
Project Implementation Unit  
Ropar


No. PHTPB/IDIPT/2016/ 7245 Dated: 08-03-2016

**Subject: Eco Tourism Development of Wildlife Zoo: Package: T3/05/04: Variation.**

**Ref:** Meeting with the officials of Forest Department GoP on dated 05-02-2016 in the chairmanship of APD.

- (i) Yourself and DTL-DSC were present in the meeting dated 05-02-2016.
1. Based on the availability of funds, Forest officials suggested their priorities for better functional requirements and tourist management in the zoo.
  2. Accordingly some components are to be dropped and some components are to be added or modified in the tendered BoQ of the contract package PB/IDIPT/T3/05/04 Eco tourism Development of Wildlife Zoo.
  3. Since sewer lines in the entire zoo cannot be laid under this package, it is proposed to drop Sewage Treatment Plants from tendered BOQ.
  4. Strengthening of existing Parking is taken in the package. The parking requirement assessed by Zoo authorities is much more. They want much bigger parking area to be freshly developed which cannot be accommodated in the contract package. Therefore, it is proposed to drop parking item from tendered BOQ.
  5. Forest officials suggested that the saving in the expenditure proposed to be dropped items can be utilized for some other items.
  6. Paved shoulders are required for Primary loop roads. Strengthening of Lion Safari and Deer Safari Roads is required. The Design of Food Plaza, Visitor shelters, Interpretation centre and Entrance Road are required to be enlarged.
  7. Accordingly, expected variation based on tentative lump sum expenditure estimate worked out is attached herewith.

You are advised to prepare actual variation proposal with detailed calculations as per actual site situations and norms for submission for approval at the earliest.

  
Additional Project Director.

CC: .  
1. PA/PD  
2. CGM  
3. TL-PMC

*Received today  
70 m 28/3/16  
m. N. N. N.*

## **Annexure – 7**

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NoC from Chief Wildlife warden for Chhatbir Zoo

Government of Punjab  
Department of Forests and Wildlife Preservation  
O/o Chief Wildlife Warden, Punjab,  
Forest Complex, 2nd Floor, 2 No. Tower,  
Sector - 68, Ajitgarh (Mohali)  
Phone: 0172-2298010, 2298000 (Ext. 2201)  
Fax: 0172-2298036.

NO. PWED/1620  
Date: 27/5/2013

No: 1142

To  
The Project Director,  
IDIPT, Chandigarh.

Dated: 24/5/13.

Subject **Project on Development and Expansion of visitor's amenities at Chhatbir Zoo through IDIPT for Punjab to be taken up in Tranche-2 ADB Project.**

A copy of above cited Project is submitted for your consideration. Total Project Cost is ₹9.99 crores. This Project was prepared by Field Director, M.C. Zoological Park, Chhatbir and thoroughly discussed at District Level Committee. The Project was further scrutinized on 10.5.2013 at joint meeting between Forest Department and IDIPT. It is further submitted that:

1. This department strongly recommends this Project.
2. This department has no objection if the Project is taken up with the assistance of ADB.
3. The department will take operational and maintenance responsibility of assets created through this Project.
4. It is certified that no resettlement of people is involve in implementation of this Project.

Encl. As above.

Chief Wildlife Warden,  
Punjab, Ajitgarh.

Endst. No. \_\_\_\_\_ Dated: \_\_\_\_\_

A copy is sent to the Field Director, M.C. Zoological Park, Chhatbir w.r.t. his letter No. 181-82 dated 15.4.2013 for information and further necessary action.

Chief Wildlife Warden,  
Punjab, Ajitgarh.

Stamp: IDIPT, PHTPB  
Receipt No. 128  
D. 27/5/13  
CHANDIGARH

## **Annexure – 8**

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## Noise Quality Monitoring


**ENVIRON TECH LABORATORIES**  
**NABL ACCREDITED & PPCB RECOGNISED**

Plot No. 62, 1st Floor, JLPL Industrial Area, Airport Road, Sector 82, S.A.S. Nagar (Mohali) Pb.  
 Tele : 9463000081, Mob. 94172-10081, Email : envrontechlab72@yahoo.com

PAN No. BPEPS0603P

Ref. No. ETL/PS/25/17-18/10

Dated: 5/7/2017

## TEST REPORT

REPORT NO. ETL/25E/2017-18/10A

Date-05.07.2017

1.	Laboratory Sample No.	ETL/05/2017-18/492A
2.	Name of Industry	M/S Brightway Contractor and Developers, Zirakpur, Punjab
3.	Type of Sample	Noise Monitoring (Day)
4.	Date of Monitoring	29.06.2017

Sr. No.	Location	Results (Leq)	Standards (Leq)	Test Method
1	Average Around Project Site(DAY)	56.1	65(DAY)	IS:9989 Ref.2001
2	Average Around Project Site(NIGHT)	50.5	55(NIGHT)	IS:9989 Ref.2001

## Note:

1. The test report refers only to tested sample and applicable parameters.
2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.



*Rameshwar Kumar*  
 (Authorized Signatory)

RAMESHWAR KUMAR  
 Technical Manager  
 Environ Tech Laboratories

\*\*End of Report\*\*

## Ambient Air Quality



PAN No. BPEPS0893P

### ENVIRON TECH LABORATORIES NABL ACCREDITED & PPCB RECOGNISED

Plot No. 62, 1st Floor, JLPL Industrial Area, Airport Road, Sector 82, S.A.S. Nagar (Mohali) Pb.  
Tele : 9463000081, Mob. 94172-10081, Email : envrontechlab72@yahoo.com

Ref. No. ETL/DSP/25/17-18/10

Dated : 5/7/2017

#### ANALYSIS REPORT

REPORT NO. ETL/25C/2017-18/10

Date-05.07.2017

1.	Laboratory Sample No.	ETL/05/2017-18/492
2.	Name of Industry	M/S Brightway Contractor and Developers, Zirakpur, Punjab
3.	Type of Sample	Ambient Air Monitoring
4.	Date of Sample Collection	29.06.2017

#### TECHNICAL DATA & RESULTS

- 1) Location of sampling station :
- 2) Instrument used for sampling : Respirable Dust Sampler
- 3) Average Manometer Reading : 1.25 m<sup>3</sup>/Min
- 4) Time period for sampling : 480 Minute
- 5) Volume of Air Sampled : 0.60.624 m<sup>3</sup>

	PARAMETERS	RESULTS	STANDARD	TEST METHOD
1.	PM <sub>10</sub>	82	100.0 µg/m <sup>3</sup>	IS:5182(P-23)
2.	SO <sub>2</sub>	4	80.0 µg/m <sup>3</sup>	IS:5182(P-2)
3.	NO <sub>2</sub>	8	80.0 µg/m <sup>3</sup>	IS:5182(P-6)
4.	PM <sub>2.5</sub>	36	60.0 µg/m <sup>3</sup>	IS:5182(P-4)
5.	CO	ND	4.0 mg/m <sup>3</sup>	IS:5182(P-10)
6.	Nickel (Ni)	ND	20.0 ng/m <sup>3</sup>	BY AAS
7.	Arsenic (As)	ND	6.0 ng/m <sup>3</sup>	BY AAS
8.	Lead (Pb)	ND	1.0 µg/m <sup>3</sup>	IS:5182(P-22)
9.	Benzene (C <sub>6</sub> H <sub>6</sub> )	ND	5.0 µg/m <sup>3</sup>	IS:5182(P-11)
10.	Benzo(a)pyrene (BaP)	ND	1.0 ng/m <sup>3</sup>	BY G.C
11.	Ammonia (NH <sub>3</sub> )	ND	400.0 µg/m <sup>3</sup>	APHA-Air (401)
12.	Ozone (O <sub>3</sub> )	ND	180.0 µg/m <sup>3</sup>	CPCB Guideline

Note: ND denotes Not Detectable,

1. The test report refers only to tested sample and applicable parameters.
2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.



*Rameshwar Kumar*  
(Authorized Signatory)

RAMESHWAR KUMAR  
Technical Manager  
Environ Tech Laboratories

\*End of Report\*

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Ambient Noise & Stack Emission

## **Annexure – 9**

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**NoC/ clearance from Cultural Affairs, Archaeology and Museums, Punjab for Qila Mubarak**

**NO OBJECTION CERTIFICATE**

It is certified that there is no objection if the proposed project .....

QILA MUBARAK, PATIALA  
(name of the project)

is executed by PHTPB of the Tourism Department (Punjab) as per the guide lines of Govt. of India and ADB loan funded projects under IDIPT at ....PATIALA.....

.....  
(details of land/area/ building)

.....

Place: Chandigarh Signature ..... M. K. B.  
Date: 27/8/14 Department /owner

(Official Stamp)

Director,  
Cultural Affairs Archaeology &  
Museums, Punjab, Chandigarh

Counter Signed

[Signature]

Deputy Commissioner  
Deputy Commissioner  
PATIALA  
(Official Stamp)

### CERTIFICATE AND UNDERTAKING

It is certified that: -

1. The QILA NUBARAK, PATIALA  
(details of land/area/ building) ..... Where  
the DEVELOPMENT OF QILA NUBARAK, PATIALA  
(name of the project) ..... project is proposed, for  
execution by PHTPB of the Tourism Department (Punjab), is under the ownership of  
DEPT. OF CULTURE ..... and is  
(Details of the owner)  
under the possession of .....  
(Details of possessor)  
Dept. of Cultural Affairs .....

2. There is NO encroachment and NO resettlement/displacement/rehabilitation of people involved in the above Proposed Project area/building/land.

3. The proposed Project is not Partially/Fully part of any other project funded under any other scheme/programme of the State/Central Govt. or any external funding.

4. The assets created as a result of the execution of above stated project will be taken over for operation and maintenance by .....  
(Name of the department/organization)

Dept. of Cultural Affairs .....

Place: Chandigarh

Date: 27/8/14

Signature YMP-61 .....

Department/Organisation/Owner  
(Official Stamp)

Counter Signed **Director,  
Cultural Affairs Archaeology &  
Museums, Punjab, Chandigarh**

Deputy Commissioner  
(Official Stamp)




## **Annexure – 10**

---

PACKAGE 6/5: Patiala Heritage Conservation and Tourism Development Project (Qila Mubarak)

Noise Quality Monitoring

 **INDUSTRIAL TESTING LABORATORY & CONSULTING HOUSE**  
(A GOVT. APPROVED TEST HOUSE)

Works & Regd. Office : Ghalari Gate, Patiala (Ph.) 147 001 Ph. 0175-2322224, 2320175, (M) 92164-21540, 92161-21540 Email : itlchpatiala@gmail.com

**NOISE MONITORING ANALYSIS REPORT**


Test Report No. : ITL/ED/05/12/01  
Dispatch Date : 12/05/2017


1.	Laboratory Sample No.	ITL/05-17/33/02
2.	Issued To	Civil Engineer, Project Implementation Unit-Ropar #320 Giani Zia Singh Nagar, Ropar
3.	Project	Patiala Heritage Conservation and Tourism Development Project (Qila Mubarak) Ref. No. PIU-Ropar/Tr-3/QM/2017/05
4.	Type of sample	Noise Level
5.	Date of sampling	12/05/2017

**Test Results**

Sr. No.	Location of Noise Measurement	Noise Level in dB(A) DayTime (Leq)
1.	Near construction site	61
2.	At qila	44
Regulatory Standards in respect of Noise		65dB (A)

Note: Daytime shall mean from 6.00 a.m. to 10.00 p.m. Noise Pollution (Regulation and Control) Rules, 2000

**ANALYST** 

**AUTHORIZED SIGNATORY** 

**NOTE:**

1. This certificate of our laboratory is limited to the enclosed analysis.
2. Results are valid for self-monitoring purposes of the industry only.
3. Samples will be destroyed after one month from the date of issue of test certificate unless otherwise specified.
4. All disputes are subject to Patiala jurisdiction.
5. This report is not to be produced wholly or in part as evidence in the court of law. This should not be used in any legal proceedings without the special permission of writing.
6. Copy is sent to the client concerned only.

## Ambient Air Quality



# INDUSTRIAL TESTING LABORATORY & CONSULTING HOUSE

(A GOVT. APPROVED TEST HOUSE)

Works & Regd. Office : Ghalari Gate, Patiala (Pb.) 147 001 Ph. 0175-2322228, 2320175, (M) 92164-21540, 92161-21540 Email : itlchpatiala@gmail.com

### AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

Test Report No. : ITL/ED05-15-01  
Dispatch Date : 15/05/2017

1.	Laboratory Sample No.	ITL/05-17/33/01
2.	Issued to	Civil Engineer, Project Implementation Unit-Ropar #320, Giani Zail Singh Nagar Ropar.
3.	Project	Patiala Heritage Conservation and Tourism Development Project/Gila Mubarak-Ref. No. PIU-Ropar/TI-3/Q&A/25/17/34
4.	Type of Sample	Ambient Air Quality Monitoring
5.	Date of commencement of sample	12/05/2017
6.	Location of Sample Collection	Near Construction site

### Test Results

Sr. No.	Parameters	Results	Regulatory Standards (NAAQS)	Test method
1.	PM -10, ( $\mu\text{g}/\text{m}^3$ )	77	100	IS 5182(Part-23) : 2006
2.	PM -2.5, ( $\mu\text{g}/\text{m}^3$ )	55	60	IS 5182(Part-23) : 2006
3.	Oxides of Sulphur $\text{SO}_2$ , ( $\mu\text{g}/\text{m}^3$ )	10	80	IS 5182(Part-2) : 2001
4.	Oxides of Nitrogen $\text{NO}_x$ , ( $\mu\text{g}/\text{m}^3$ )	17	80	IS 5182(Part-6) : 2006
5.	Carbon monoxide $\text{CO}$ , ( $\text{mg}/\text{m}^3$ )	N.D.	2.0	CO meter

N.D. Not Detected

ANALYST

AUTHORIZED SIGNATORY

#### NOTE:

1. Total validity of test laboratory is limited to the mentioned scope.
2. Report is valid for self-monitoring purposes of the industry only.
3. Samples will be destroyed after one month from the date of issue of this certificate unless otherwise specified.
4. All measurements subject to Patiala jurisdiction.
5. This report is not to be produced wholly or in part or purchased or the result of test will be used for legal purpose without our special permission in writing.
6. Report issued for the above parameters only.


## **Annexure – 11**

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PACKAGE 7/7: Establishment of Tourism Facilities and Infrastructure Showcasing of Sikh Culture, Chamkaur Sahib (Civil Works)

Noise Quality Monitoring

PAN No. BPEP896U31

 **ENVIRON TECH LABORATORIES**  
NABL ACCREDITED & PPCB RECOGNISED  
Plot No. 62, 1st Floor, JLPI Industrial Area, Airport Road, Sector 82, S.A.S. Nagar (Mohali) Pb.  
Tele : 9463000081, Mob. 94172-10081, Email : envrontechlab72@yahoo.com

Ref. No. ETL/25E/2017-18/08A Dated : 5/7/2017

**TEST REPORT**


REPORT NO. ETL/25E/2017-18/08A Date-05.07.2017

1. Laboratory Sample No.	ETL/05/2017-18/479A
2. Name of Industry	M/S Singla Construction Ltd, Site-Theme Park, Chamkaur Sahib, Distt Ropar, Punjab
3. Type of Sample	Noise Monitoring (Day)
4. Date of Monitoring	29.06.2017

Sr. No.	Location	Results (Leq)	Standards (Leq)	Test Method
1	Average Around Project Site(DAY)	54.7	65(DAY)	IS:9989 Ref.2001
2	Average Around Project Site(NIGHT)	47.1	55(NIGHT)	IS:9989 Ref.2001

Note:

1. The test report refers only to tested sample and applicable parameters.
2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.

 (Authorized Signatory)

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

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Ambient Noise & Stack Emission

# Ambient Air Quality Monitoring



## ENVIRON TECH LABORATORIES NABL ACCREDITED & PPCB RECOGNISED

Plot No. 62, 1st Floor, JLPL Industrial Area, Airport Road, Sector 82, S.A.S. Nagar (Mohali) Pb.  
Tele : 9463000081, Mob. 94172-10081, Email : envirotechlab72@yahoo.com

PAN No. BPEPS9663P

Ref. No. ETL/ASP/25/17-18/08

Dated : 5/7/2017

### ANALYSIS REPORT

REPORT NO. ETL/25C/2017-18/08

Date-05.07.2017

1.	Laboratory Sample No.	ETL/05/2017-18/479
2.	Name of Industry	M/S Singla Construction Ltd, Site-Theme Park Chamkaur Sahib, Distt Ropar, Punjab
3.	Type of Sample	Ambient Air Monitoring
4.	Date of Sample Collection	29.06.2017

### TECHNICAL DATA & RESULTS

- 1) Location of sampling station : Near Construction Site
- 2) Instrument used for sampling : Respirable Dust Sampler
- 3) Average Manometer Reading : 1.3 m<sup>3</sup>/Min
- 4) Time period for sampling : 480 Minute
- 5) Volume of Air Sampled : 0.624 m<sup>3</sup>

	PARAMETERS	RESULTS	STANDARD	TEST METHOD
1.	PM <sub>10</sub>	88	100.0 µg/m <sup>3</sup>	IS:5182(P-23)
2.	SO <sub>2</sub>	7	80.0 µg/m <sup>3</sup>	IS:5182(P-2)
3.	NO <sub>2</sub>	10	80.0 µg/m <sup>3</sup>	IS:5182(P-6)
4.	PM <sub>2.5</sub>	35	60.0 µg/m <sup>3</sup>	IS:5182(P-4)
5.	CO	ND	4.0 mg/m <sup>3</sup>	IS:5182(P-10)
6.	Nickel (Ni)	ND	20.0 ng/m <sup>3</sup>	BY AAS
7.	Arsenic (As)	ND	6.0 ng/m <sup>3</sup>	BY AAS
8.	Lead (Pb)	ND	1.0 µg/m <sup>3</sup>	IS:5182(P-22)
9.	Benzene (C <sub>6</sub> H <sub>6</sub> )	ND	5.0 µg/m <sup>3</sup>	IS:5182(P-11)
10.	Benzo(a)pyrene (BaP)	ND	1.0 ng/m <sup>3</sup>	BY G.C
11.	Ammonia (NH <sub>3</sub> )	ND	400.0 µg/m <sup>3</sup>	APHA-Air (401)
12.	Ozone (O <sub>3</sub> )	ND	180.0 µg/m <sup>3</sup>	CPCB Guideline

Note: ND denotes Not Detectable,

1. The test report refers only to tested sample and applicable parameters.
2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.



(Authorized Signatory)

\*End of Report\*

Testing of Water, Waste Water, Soil, Food, Monitoring of Ambient Air, Ambient Noise & Stack Emission

## **Annexure – 12**

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# PACKAGE 8/9: Structures Conservation at Gobindgarh Fort

## Noise Quality Monitoring



**Eco Laboratories & Consultants Pvt. Ltd.**

NABL / MOEF / PPCB / HSPCB / BIS approved Laboratory

ISO - 9001 : 2008, 14001:2004 OHSAS-18001:2007

CIN : U74140PB2011PTC034739



ISO 9001:2008

## TEST REPORT

Test Report No. :EL260617EC001N-A		EL-17-18/1122A	Page No. 1/1
Customer	Punjab Heritage & Tourism Promotion Board Conservation at Gobindgarh Fort Amritsar M/s Construction Technique		
Work Order No. & Date	PHTB/DIPT/2016/5210-32 dt: 03/01/17		
Type of Sample	Ambient Noise		
Mode of Collection of Sample	Sampling by laboratory		
Date of Sampling	26/06/2017		
Sampling Location	Near Site Office		
Sampling Protocol	IS: 9989:1981 R-2002 and as per customers requirements		
Date of Receipt of Sample	27/06/2017		
Period of Analysis	27/06/2017 to 30/06/2017		
Date of Reporting	30/06/2017		
Testing Protocol	IS 9989: 1981 R-2002		
Environmental Condition	Clear Sky		

### RESULTS

S.No.	Test Parameter	Units	Result	Method
1	Day Leq dB (A)	dB (A)	62.2	IS: 9989:1981 R-2002
2	Night Leq dB (A)	dB (A)	51.2	IS: 9989:1981 R-2002

Remarks (if any) : Ambient Noise Quality Standards (CPCB, 2009) are given for reference

\*\*End of Report\*\*

Lab Incharge

For Eco Laboratories & Consultants Pvt. Ltd.

Authorized Signatory

### Ambient Noise Quality Standards (CPCB,2009)

Area Code	Category of Area	Limit dB (A) Leq	
		Day Time (6AM-10PM)	Night Time (10PM-6AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

PTO

**ECO BHAWAN** E-207, Industrial Area, Phase VIII-B (Sector-74), Mohali (Punjab) 160071

TeleFax: 0172-4616225 M: 9781303109 [consulteco@yahoo.com](mailto:consulteco@yahoo.com) [ecolab@ecoparyavaran.org](mailto:ecolab@ecoparyavaran.org) [www.ecoparyavaran.org](http://www.ecoparyavaran.org)

## Ambient Air Quality Monitoring



**Eco Laboratories & Consultants Pvt. Ltd.**

NABL / MOEF / PPCB / HSPCB / BIS approved Laboratory

ISO - 9001 : 2008, 14001:2004 OHSAS-18001:2007

CIN : U74140PB2011PTC034739



### TEST REPORT



Test Report No. :EL260617EC001		CLT-18/11/21	Page No. 1/1
Customer	Punjab Heritage & Tourism Promotion Board Conservation at Gobindgarh Fort Amritsar M/s Construction Technique		
Work Order No. & Date	PHTB/IDIPT/2016/5210-32 dt.: 03/01/17		
Type of Sample	Ambient Air		
Mode of Collection of Sample	Sampling by laboratory		
Date of Sampling	26/06/2017		
Sampling Location	Near Site Office		
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines and Customer's Requirements.		
Date of Receipt of Sample	27/06/2017		
Period of Analysis	27/06/2017 to 30/06/2017		
Date of Reporting	30/06/2017		
Testing Protocol	NAAQS 2009		
Environmental Condition	Clear Sky		

### RESULTS

S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
1	Particulate Matter (PM 10)	µg/m <sup>3</sup>	86	100	IS: 5182 (P-23) 2004
2	Particulate Matter (PM 2.5)	µg/m <sup>3</sup>	48	60	Lab SOP EL-A1-PM2.5 Issue 01 Dated 1.6.14 based on Manufacturer's Manual and CPCB Guidelines.
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	8.6	80	IS: 5182 (P-2) 2001
4	Nitrogen Oxides (as NO <sub>2</sub> )	µg/m <sup>3</sup>	18.2	80	IS: 5182 (P-6) 2006
5	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	21	400	APHA 11nd Ed. 1977 Method 801
6	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	9.6	180	IS: 5182 (Part-9) 1974 R2003
7	Carbon Monoxide (CO)	mg/m <sup>3</sup>	<1.5	04	Lab SOP EL-A2-CO Issue 01 Dated 1.6.14 Electrochemical Method- Manufacturer's Manual

Remarks (if any)

\*\*End of Report\*\*

Lab Incharge

For Eco Laboratories & Consultants Pvt. Ltd.

Authorized Signatory

PTO

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## **Annexure – 13**

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Noise Quality



Service Tax No. BPEPS9693PSD001  
PAN No. BPEPS9693P

**ENVIRON TECH LABORATORIES**

(NABL ACCREDITED LAB.)

Certificate No. T-1947

Plot No. 62, 1st Floor, JLPL Industrial Area, Sector 82, Airport Road, S.A.S. Nagar (Mohali) Pb.  
Tele : 9463000081, Mob. 94172-10081, Email : envrontechlab72@yahoo.com

Ref. No. : .....

Dated : 08/06/2017

TEST REPORT

To  
M/s Rajputana Constructios Pvt. Ltd.  
Consevvatin and adaptive reuse of  
Colonial Heritage in Kapurthala(Pb)

Report Date	: 08.06.2017	Report No.	: ETL/26/2017-18/393-B
Your Ref. No	: NIL	Type of Sample	: Ambient Noise Level Monitoring
Sample I.D.	: ETL/05/2017-18/393-B	Date of Monitoring	: 01.06.2017

TECHNICAL DATA

Name of Site		Darbar Hall Kapurthala			
Location of Monitoring Station		Rear Side of Darbar Hall			
Instrument Used for Monitoring		Noise Level Meter			
SR. NO.	LOCATION/AREA	RESULTS dB(A)LEQ		LIMITS IN dB(A) LEQ.	TEST METHOD
1	Rear Side of Darbar Hall	Day Time	53 dB (A)	55 dB (A)	IS:9989-1981 Reaff:2001
		Night Time	42 dB (A)	45 dB (A)	

Note: All Parameters are within limit as prescribed by the CPCB Guidelines -2010.

1. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.

This Analysis Report is not Valid  
for Consent Purpose of  
the Board



*Rameshwar Kumar*  
**AUTHORIZED SIGNATORY**  
RAMESHWAR KUMAR  
Technical Manager  
Environ Tech Laboratories



# Air Quality



## ENVIRON TECH LABORATORIES (NABL ACCREDITED LAB.)

Certificate No. T-1947

Plot No. 62, 1st Floor, JLPL Industrial Area, Sector 82, Airport Road, S.A.S. Nagar (Mohali) Pb.  
Tele : 9463000081, Mob. 94172-10081, Email : envrontechlab72@yahoo.com

Service Tax No. BPEPS9693PSD001  
PAN No. BPEPS9693P

Ref. No. : .....

Dated : 08/06/2017

### TEST REPORT

To  
M/s Rajputana Constructios Pvt. Ltd.  
Conservatin and adaptive reuse of  
Colonial Heritage in Kapurthala(Pb)

Report Date	: 08.06.2017	Report No.	: ETL/26/2017-18/393-A
Your Ref.No	: NIL	Type of Sample	: Ambient Air Sample
Sample I.D.	: ETL/05/2017-18/393-A	Date of Sampling	: 01.06.2017 to 02.06.2017
		Date of Sample Receipt	: 03.06.2017
		Date of test	: 03.06.2017 to 08.06.2017

### TECHNICAL DATA

1	Name of Site	Darbar Hall Kapurthala
2	Location of Sampling Station	Near Front Entrance area of Darbar Hall
3	Instrument Used for Sampling	Respirable Dust Sampler-I
4	Source of Sampling	Ambient Air
5	Temperature of Sampling Location	36°C
6	Environmental Condition	Max temp. 40°C Min temp. 32°C Clear sky and wind direction west to east
7	Flow Rate of Sampling	1.0 LPM
8	Time Period for Sampling	1440 Minutes
9	Volume of Air Sampled	1.44 m <sup>3</sup>

### RESULTS

S.NO	PARAMETER (µg/m <sup>3</sup> )	RESULT	STANDARD (µg/m <sup>3</sup> )	TEST METHOD
1.	PM <sub>10</sub>	62.8	100.0	IS:5182(Pt-23):2006
2.	PM <sub>2.5</sub>	28.9	60.0	Gravimetric method and CPCB Guidelines
3.	SO <sub>2</sub>	6.7	80.0	IS:5182(Pt-2):2001
4.	NO <sub>2</sub>	22.8	80.0	IS:5182(Pt-6):2006

Note: All Parameters are within limit as prescribed by the CPCB Guidelines -2010.

ND: Not Detactable

1. Sample consumed in testing.
2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.

This Analysis Report is not Valid  
for Consent Purpose of  
the Board



*Rameshwar Kumar*  
AUTHORIZED SIGNATORY  
RAMESHWAR KUMAR  
Technical Manager  
Environ Tech Laboratories

## **Annexure – 14**

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# Noise Quality



**Eco Laboratories & Consultants Pvt. Ltd.**

NABL / MOEF / PPCB / HSPCB / BIS approved Laboratory

ISO - 9001 : 2008, 14001:2004 OHSAS-18001:2007

CIN : U74140PB2011PTC034739



## TEST REPORT

Test Report No. :EL260617EC003N-A	EL-17-18/112-6A	Page No. 1/1
Customer	Punjab Heritage & Tourism Promotion Board Conservation of Adaptive Reuse of Town Hall Amritsar M/s Construction Technique	
Work Order No. & Date	PHTB/IDIPT/2016/5210-32 dt.: 03/01/17	
Type of Sample	Ambient Noise	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	26/06/2017	
Sampling Location	Construction Site	
Sampling Protocol	IS: 9989:1981 R-2002 and as per customers requirements	
Date of Receipt of Sample	27/06/2017	
Period of Analysis	27/06/2017 to 30/06/2017	
Date of Reporting	30/06/2017	
Testing Protocol	IS 9989: 1981 R-2002	
Environmental Condition	Clear Sky	

## RESULTS

S.No.	Test Parameter	Units	Result	Method
1	Day Leq dB (A)	dB (A)	60.5	IS- 9989:1981 R-2002
2	Night Leq dB (A)	dB (A)	49.6	IS- 9989:1981 R-2002

Remarks (if any) Ambient Noise Quality Standards (CPCB, 2009) are given for reference

\*\*End of Report\*\*

Lab Incharge

For Eco Laboratories & Consultants Pvt. Ltd.

Authorized Signatory

### Ambient Noise Quality Standards (CPCB,2009)

Area Code	Category of Area	Limit dB (A) Leq	
		Day Time (6AM-10PM)	Night Time (10PM-6AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

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TeleFax: 0172-4616225 M: 9781303109 consulteco@yahoo.com ecolab@ecoparyavaran.org www.ecoparyavaran.org

## Air Quality



### Eco Laboratories & Consultants Pvt. Ltd.

NABL / MOEF / PPCB / HSPCB / BIS approved Laboratory

ISO - 9001 : 2008, 14001:2004 OHSAS-18001:2007

CIN : U74140PB2011PTC034739



ISO 9001:2008

## TEST REPORT



Test Report No. :EL260617EC003		EL-17-18/1125	Page No. 1/1
Customer	Punjab Heritage & Tourism Promotion Board Conservation of Adaptive Reuse of Town Hall Amritsar M/s Construction Technique		
Work Order No. & Date	PHTB/DIPT/2016/5210-32 dt.: 03/01/17		
Type of Sample	Ambient Air		
Mode of Collection of Sample	Sampling by laboratory		
Date of Sampling	26/06/2017		
Sampling Location	Construction Site		
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines and Customer's Requirements.		
Date of Receipt of Sample	27/06/2017		
Period of Analysis	27/06/2017 TO 30/06/2017		
Date of Reporting	30/06/2017		
Testing Protocol	NAAQS 2009		
Environmental Condition	Clear Sky		

### RESULTS

S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
1	Particulate Matter (PM 10)	µg/m3	89	100	IS:5182 (P-23) 2004
2	Particulate Matter (PM 2.5)	µg/m3	51	60	Lab SOP EL-A1-PM2.5 Issue 01 Dated 1.6.14 based on Manufacturer's Manual and CPCB Guidelines
3	Sulphur Dioxide (SO2)	µg/m3	8.9	80	IS:5182 (P-2) 2001
4	Nitrogen Oxides (as NO2)	µg/m3	19.2	80	IS:5182 (P-6) 2006
5	Ammonia (NH3)	µg/m3	20.1	400	APHA 11nd Ed. 1977 Method 801
6	Ozone (O3)	µg/m3	9.6	180	IS:5182 (Part-9) 1974 R2003
7	Carbon Monoxide (CO)	mg/m3	<1.5	04	Lab SOP EL-A2-CO Issue 01 Dated 1.6.14 Electrochemical Method- Manufacturer's Manual

Remarks (if any)

\*\*End of Report\*\*

Lab Incharge

For Eco Laboratories & Consultants Pvt. Ltd.

Authorized Signatory

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