



Environmental Monitoring Report

Project Number: 40648-034
March 2017

Period: July 2016 – December 2016

IND: Infrastructure Development Investment Program for Tourism - Tranche 3

Submitted by

Project Management Unit, Punjab Heritage and Tourism Board, Chandigarh

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No. PHTPB/IDIPT/2017/6310-15

Dated: 06/3/17

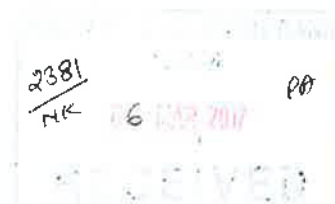
Subject: Loan 3223 IND: Bi-annual Environment Monitoring Progress Report (BEMR) for
Tranche-3 for the bi-annual July, 2016 to December, 2016

Please find attached herewith the Bi-annual Environment Monitoring Progress Report
(BEMR) for Tranche-3 Loan No. 3223 for the bi-annual July, 2016 to December, 2016.


Addl. Project Director

CC:

1. PA to PD, IDIPT-PB
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**INFRASTRUCTURE DEVELOPMENT INVESTMENT
PROGRAM FOR TOURISM (IDIPT)**

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

Bi-annual ending December – 2016



**GOVERNMENT OF PUNJAB
Department of Tourism**

Jul - Dec 2016

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 December – 2016

Project Management Unit

INFRASTRUCTURE DEVELOPMENT INVESTMENT PROGRAMME FOR TOURISM

PUNJAB HERITAGE and TOURISM PROMOTION BOARD

Plot No.3, Sector38A, Chandigarh – 160 036

CONTENTS

S.NO.	DETAILS OF THE PROJECT	PAGE. NO.
1.	Introduction	1
2.	Need for Initial Environmental Examination (IEE)	1
3.	Purpose of Environmental Monitoring Program	1
4.	Objectives of carrying out Environmental Monitoring Program	1
5.	EMP Implementation Arrangement for IDIPT	2
6.	Construction Activities, Project Progress and Environmental Monitoring Status	2
I.	PACKAGE 3-12/02 - Imperial Highway Heritage Conservation and Visitor Facility Development	3
II.	PACKAGE 4/3: Eco-tourism Development at Ropar and Harike Wetlands (Civil Works)	12
III.	PACKAGE 5/4: Eco-Tourism Development of Wildlife Zoo	18
IV.	PACKAGE 6/5: Patiala Heritage Conservation and Tourism Development Project (Qila Mubarak)	23
V.	PACKAGE 7/7: Establishment of Tourism Facilities and Infrastructure showcasing of Sikh Culture, Chamkaur Sahib (Civil Works)	29
VI.	PACKAGE 8/9: Structures Conservation at Gobindgarh Fort	35
VII.	PACKAGE 10/14: Last mile Connectivity to Cultural Sites in Western Circuit	40
VIII.	PACKAGE 13/20: Conservation and Adaptive Reuse of Colonial Heritage in Kapurthala - Darbar Hall	45
IX.	PACKAGE 9/11 Conservation Works At Town Hall, Ram Bagh And Historic Buildings Along Heritage Walk In Amritsar	50

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

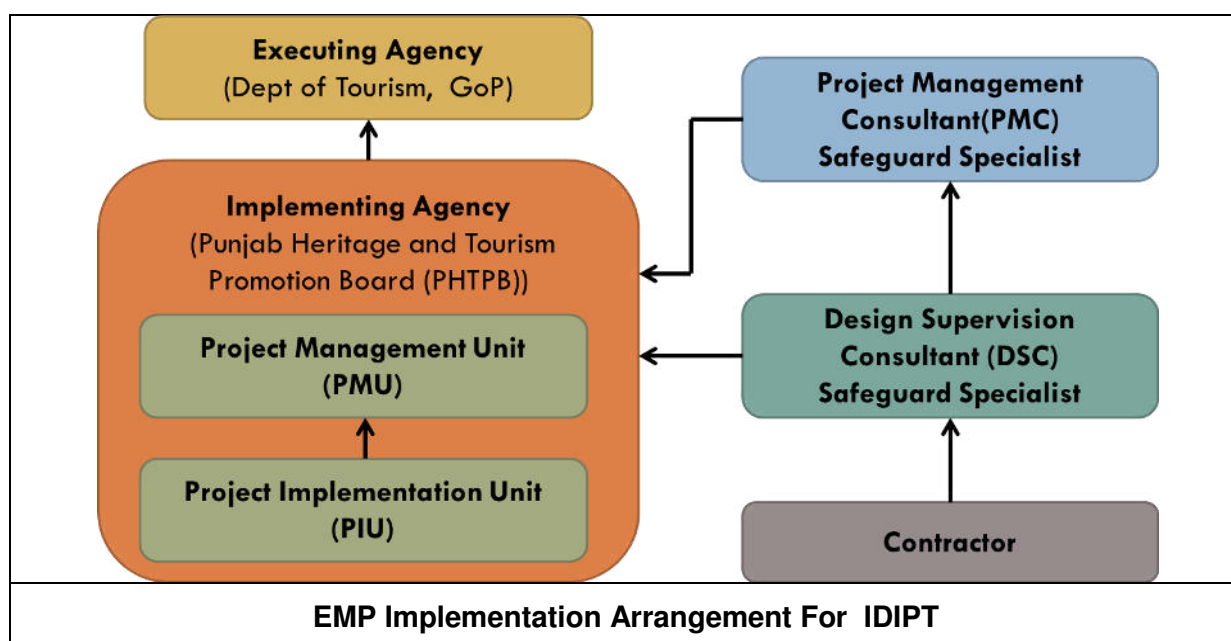
The objectives of carrying out the Environmental Monitoring Program include the following:

- 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 Rupnagar. 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 Rupnagar. 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	Package 3-12/02						
	Lot-1: Conservation of Aam Khas Bagh in Fatehgarh Sahib, Patiala	<ul style="list-style-type: none"> • Vegetation clearance • Consolidation and reconstruction of missing brick masonry • Stitching of structural cracks/filling • Consolidation of lime concrete flooring and demolition of ips flooring • Removal dismantling of modular brick in fill • Landscaping and site development • Cleaning the exposed surface. • Plastering the masonry surface with lime plaster. • Repairing the terracing (gateways), sloping chajjas (bastions), brick brackets (bastions and enclosure walls) • Provision of boundary wall on the eastern, western, and southern edge of the garden complex. • Provision of the entrance gate and guard rooms for security purpose. • Adaptive reuse of structure and provision of interpretation center 	25 July 2015	24 Jan 2017	30.0%	<ul style="list-style-type: none"> • Plaster work is under progress for inner and outer side of Naughara. • Loii work on external walls at Mehtabi Bagh is under progress. • West side boundary wall designer plaster work under progress. 	The contractor is advised to expedite the work as there is a slow progress in work

		and craft centre at Mulsari • Provision of tourist reception centre at Mulsari. • Reconstruction of original brick work.					
	Lot-2: Conservation of Tombs and Rauza Sharif in Fatehgarh Sahib	<ul style="list-style-type: none"> • Conservation and Restoration of six heritage buildings including interior decorative ceilings. • Construction of toilet complexes and baths at Dargah complex • Paving of walkway towards guest rooms & site development works. • Provision of internal signage (having uniformity in design) for the Dargah complex 	30 Oct 2015	29 Apr 2017	55.0%	<ul style="list-style-type: none"> • Toilets block plumbing works and electrical works under progress. • Pavers block fixing is under progress. • Marble cleaning work is under progress 	The contractor is advised to expedite the work as there is a slow progress in work
	Lot-2: Conservation of Tomb of, Raffudin	<ul style="list-style-type: none"> • Adopting decay mechanisms in the buildings and precinct components • Forming/ making the missing damaged elements/ features that forms an integral part of historical design • Conserving the original built fabric and decorative features of structures. • Conserving the tangible and intangible aspects of the precinct 	30 Oct 2015	29 Apr 2017	16.0%	<ul style="list-style-type: none"> • Earth Retaining wall is under progress. • Planter excavation work and PCC work started at Tomb of Raffudin is under progress. 	The contractor is advised to expedite the work as there is a slow progress in work
	Lot-2: Conservation of Tomb of Alfasani	<ul style="list-style-type: none"> • Landscaping Site Development 	30 Oct 2015	29 Apr 2017	20.0%	<ul style="list-style-type: none"> • Inner side Consolidation work under progress. • Repair and brick work at Tomb of Alfsani is under progress 	The contractor is advised to expedite the work as there is a slow progress in work

	Lot-2: Conservation of Tomb of Bibi Taj		30 Oct 2015	29 Apr 2017	30.0%	<ul style="list-style-type: none"> • Excavation of drain work under progress in outer side. • Pathway work under progress. • Terrace Consolidation work under progress. • Filter media work at Bibi Taj Tomb is under progress 	The contractor is advised to expedite the work as there is a slow progress in work
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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 subsequent amendments)	Not applicable (not in the list of projects, which requires Environmental Clearance)
Water (Prevention and control of pollution) Act, 1974		Not applicable, since there is no requirement for setting up of hot mix plants, wet mix plants, stone	

Package No	Subproject Component/Packages	Clearance/ Approval required	Current Status
		and Air (prevention and control of pollution) Act, 1981	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 Annexure -1)

c. Compliance status with Loan Covenant:

Package no	Environmental Safeguard related Loan Covenants	Compliance Status
Package 3-12/02: Imperial Highway Heritage Conservation and Visitor Facility Development. Lot-1: Conservation of Aam Khas Bagh in Fatehgarh Sahib 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	<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>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>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
2	Description of proposed improvements	<p>Conservation works including</p> <ul style="list-style-type: none"> Vegetation clearance Consolidation and reconstruction of missing brick masonry 	<p>Conservation of Tombs and Rauza Sharif in Fatehgarh Sahib</p> <ul style="list-style-type: none"> Conservation and Restoration of six heritage buildings 	<ul style="list-style-type: none"> Adopting decay mechanisms in the buildings and precinct components Forming/ making the missing damaged elements/ features that forms

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
		<ul style="list-style-type: none"> Consolidation of lime concrete flooring Landscaping and site development Plastering the masonry surface with lime plaster. Repairing the terracing, sloping chajjas and brick brackets Provision of boundary wall. Provision of the entrance gate and guard rooms for security purpose. Adaptive reuse of structure and provision of interpretation center and craft centre Provision of tourist reception centre. Reconstruction of original brick work. 	<ul style="list-style-type: none"> Construction of toilet complexes Paving of walkway Provision of internal signage 	<ul style="list-style-type: none"> an integral part of historical design Conserving the original built fabric and decorative features of structures. Conserving the tangible and intangible aspects of the precinct Landscaping Site Development
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.

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
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 utilised to the extent possible.	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	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
(i) Conservation of Tomb of Alfasani	41.9 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	42.0 dB (A)	

(iii)	Near old hotel	57.2 dB (A)	
(iv)	Near Nav Ghar	58.6 dB (A)	
(v)	Near Mehtabi Bhag	58.3 dB (A)	
		The observed values are found to be less than the prescribed limits in comparison with the CPCB Noise Quality Standard for commercial area/ zone .	

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

Location	Parameter	Value	Standard value
(i) Conservation of Tomb of Alfasani	PM ₁₀ , µg/m ³	57.6	100.0
	PM _{2.5} , µg/m ³	35.0	60.0
	Oxides of Sulphur, µg/m ³	8.7	80.0
	Oxides of Nitrogen, µg/m ³	21.3	80.0
	Carbon monoxide, mg/m ³	0.66	4.0
(ii) Conservation of Tomb of Bibi Taj	PM ₁₀ , µg/m ³	61.4	
	PM _{2.5} , µg/m ³	38.8	
	Oxides of Sulphur, µg/m ³	9.3	
	Oxides of Nitrogen, µg/m ³	24.3	
	Carbon monoxide, mg/m ³	0.62	
(iii) Near old hotel	PM ₁₀ , µg/m ³	72.3	
	PM _{2.5} , µg/m ³	28.9	
	Oxides of Sulphur, µg/m ³	11.10	
	Oxides of Nitrogen, µg/m ³	23.56	
	Carbon monoxide, mg/m ³	<1.5	
(iv) Near Nav Ghar	PM ₁₀ , µg/m ³	65.8	
	PM _{2.5} , µg/m ³	31.3	
	Oxides of Sulphur, µg/m ³	10.27	
	Oxides of Nitrogen, µg/m ³	22.43	
	Carbon monoxide, mg/m ³	<1.5	
(v) Near Mehtabi Bhag	PM ₁₀ , µg/m ³	69.5	
	PM _{2.5} , µg/m ³	27.6	
	Oxides of Sulphur, µg/m ³	12.61	
	Oxides of Nitrogen, µg/m ³	21.92	

Location	Parameter	Value	Standard value
	Carbon monoxide, mg/m ³	<1.5 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 3-12/02: 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 date	Type of Work presently Conducted	Remarks
1.	Package 4/3: Eco-tourism Development at Ropar and Harike Wetlands (Civil Works)	<u>At Harike Wetland</u> <ul style="list-style-type: none"> • Provision of nature trail of about 6.5 km • Provision of a short trail of about 600 m ending at notch point. • Provision for vehicle parking and reception complex • Provision of public amenities • Provision of internal sign/ information boards of uniform design • Upgrading the old building at Churian check post to an interpretation center. • Provision of boating facilities • Landscaping outside core protected area <u>At Ropar Wetland</u> <ul style="list-style-type: none"> • Provision of bird watch towers and bird hides • Provision of nature trail of about 800 m • Provision of 	19 Aug 2015	18 Feb 2017	25.0%	<ul style="list-style-type: none"> • Excavation work of nose point is under progress. • Stone wall work of nose point jetty is under progress. • Brick bat laying on flooring of LMB FD post near jetty point is under progress. • Rain water slot of LMB road right side is under progress. 	PC of the road work cannot be taken due to weather; Piling work has been started in board walk
					20%	<ul style="list-style-type: none"> • Chowkat fixing work under progress. Pile work is under progress. • Step work under progress of interpretation center. 	

		<p>public amenities</p> <ul style="list-style-type: none"> • Upgrade of existing interpretation center • Provision of sign/ information boards of uniform design <p><u>Provision of parking facilities Ropar Wetland Connectivity</u></p> <ul style="list-style-type: none"> • Strengthening is proposed at 0/00 km to 0/945 km (0.945 km) and 6/115 km to 16/245 (10.13 km) • Widening and strengthening is proposed at 0/945km to 6/115 km (5.17km) 			75%	<ul style="list-style-type: none"> • Soil filling work under progress in bus parking area. • Brick work of Interpretation (existing building) Center is under progress. • Culvert work Completed • Work of strengthening of shoulder is under 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 4/3: 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
	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	Not applicable, since there are no requirement for

Package No	Sub Project Component/Packages	Clearance/ Approval required	Current Status
		pollution) Act, 1974 and Air (prevention and control of pollution) Act, 1981	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 Annexure 4)
		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 Annexure 4)

c. Compliance status with Loan Covenant:

Package	Environmental Safeguard related Loan Covenants	Compliance Status
Package 4/3: Eco-tourism Development at Ropar and Harike Wetlands (Civil Works)	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	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 biannual 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 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>At Harike Wetland</p> <ul style="list-style-type: none"> • Provision of nature trail of about 6.5 km • Provision of a short trail of about 600 m ending at notch point. • Provision for vehicle parking and reception complex • Provision of public amenities • Provision of internal sign/ information boards of uniform design • Upgrading the old building at Churian check post to

S. No.	Subproject Criteria	Selection	Package 4/3: Eco-tourism Development at Ropar and Harike Wetlands (Civil Works)
			<p>an interpretation center.</p> <ul style="list-style-type: none"> • Provision of boating facilities • Landscaping outside core protected area <p><u>At Ropar Wetland</u></p> <ul style="list-style-type: none"> • Provision of bird watch towers and bird hides • Provision of nature trail of about 800 m • Provision of public amenities • Upgrade of existing interpretation center • Provision of sign/ information boards of uniform design <p><u>Provision of parking facilities Ropar Wetland</u></p> <p><u>Connectivity</u></p> <ul style="list-style-type: none"> • Strengthening is proposed at 0/00 km to 0/945 km (0.945 km) and 6/115 km to 16/245 (10.13 km) <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,	As per the mitigation measures, the generated	Satisfactory	Continuous monitoring is required

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
either as a fill material or based on its suitability of reuse to maximum extent.	construction waste has been utilised to the extent possible		
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 Annexure -2).	Continuous monitoring is required
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
In the vicinity of the construction site, at the location advised by the Environment Specialist of the DSC	The observed value of 48.0 dB (A) is found to be less than the prescribed limits in comparison with the CPCB Noise Quality Standard for Silent zone .	CPCB noise standard for silent zone is 50 dB (A) for day time and 40 dB (A) for night time.

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

Location	Parameter	Value	Standard value
In the vicinity of the construction site, at the location advised by the Environment Specialist of the DSC	SPM, $\mu\text{g}/\text{m}^3$	70.4	100.0
	Oxides of Sulphur, $\mu\text{g}/\text{m}^3$	3.6	80.0
	Oxides of Nitrogen, $\mu\text{g}/\text{m}^3$	1.8	80.0
	Carbon monoxide, mg/m^3	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
	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"> • Construction of Thematic Zoo Entrance including Lake Landscaping • Construction of modern Interpretation centre • Creation of Zoological Education Park • Creation/Up-gradation of visitors convenience, shelters and rest areas inside Zoological park • Upgradation of primary and secondary travel paths to various zoo attraction • Construction of Tourist Facilities centre at the zoo main entrance gate • Strengthening of zoo waste disposal system including relaying of the sewer network of the zoo, installation of Sewerage Treatment Plant (STP) • Capacity building for tourism development and management 	19 Aug 2015	18 Feb 2017	33.0%	<ul style="list-style-type: none"> • Food Plaza fabrication work under progress. • Food plaza Plumbing work under progress. • Food plaza terrace seating work under progress. • Interpretation centre plaster work under progress. • Interpretation centre vitrified flooring tile work under progress. • Lake toe wall work is under progress. • Entry gate fabrication work is under progress • Visitor shelter kota stone work is under progress. 	Contractor is advised to expedite the work progress

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.
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, 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 Annexure 6)
		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:

S. No.	Environmental Safeguard related Loan Covenants	Compliance Status
Package 5/4: Eco-tourism Development	The Project is undertaken, and the Project facilities are designed, constructed,	All ADB safeguards are being followed.

S. No.	Environmental Safeguard related Loan Covenants	Compliance Status
of Wildlife Zoo	<p>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 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"> • Construction of Thematic Zoo Entrance including Lake Landscaping • Construction of modern Interpretation centre • Creation of Zoological Education Park • Creation/Up-gradation of visitors convenience, shelters and rest areas inside Zoological park • Upgradation of primary and secondary travel paths to various zoo attraction • Construction of Tourist Facilities centre at the zoo main entrance gate • Strengthening of zoo waste disposal system including relaying of the sewer network of the zoo, installation of Sewerage Treatment Plant (STP) • Capacity building for tourism development and management
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.

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
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 - 7)

Location	Value	Standards
In the vicinity of the construction site, at the location advised by the Environment Specialist of the DSC	The observed value of 50.0 dB (A) is found to be less than the prescribed limits in comparison with the CPCB Noise Quality Standard for commercial area/ zone .	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 - 7)

Location	Parameter	Value	Standard
In the vicinity of the construction site, at the location advised by the Environment Specialist of the DSC	SPM, $\mu\text{g}/\text{m}^3$	88.3	100.0
	Oxides of Sulphur, $\mu\text{g}/\text{m}^3$	2.4	80.0
	Oxides of Nitrogen, $\mu\text{g}/\text{m}^3$	0.15	80.0
	Carbon monoxide, mg/m^3	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 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"> • Conservation and restoration of buildings at Qila Mubarak. • Conservation works to be done to architectural and decorative details. • Adaptive reuse of area between Qila Androon and outer wall for museum. • Landscaping and Site Development: <ul style="list-style-type: none"> ○ Landscaping and site development of the inner areas of Qila Mubarak ○ Provision of adequate lighting and internal signages. ○ Provision of visitor facilities and services. • Rerouting the electric cables currently running across the fort • Capacity building for tourism development and management. 	16 Sept 2015	15 Mar 2017	55.0%	<p><u>QILA MUBARAK PATIALA JALAU KHANA</u></p> <ul style="list-style-type: none"> • Room F-2, F-4 internal plaster finishing, internal cornice construction work. • Terrace stair case head room wall brick work. • North and East side varandah parapet wall plaster finishing, moulding work. • Jalau Khana ground floor G5 room arches crack stitching work with cem tie <p><u>ANDROON MAHAL</u></p> <ul style="list-style-type: none"> • Androon facade Stucco/repairing work, LHS and middle top dome stucco/repairing, chhajja construction work. • Androon mahal room no G3B internal plaster is in progress. <p><u>RANG AND SHEESH MAHAL</u></p>	

						<ul style="list-style-type: none"> • Rang mahal north side wall plaster work, dome construction, door frame fixing work. • Room no G-12, G-23 internal plastering work in progress. • Sheesh mahal central courtyard parapet wall plastering work in progress. • Sheesh mahal central courtyard first floor outer wall face plastering 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	Not applicable, since there are no requirement for setting up of hot mix plants, wet mix plants,

Package No	Sub Project Component/Packages	Clearance/ Approval required	Current Status
		of pollution) Act, 1981	stone crushers and diesel generators.
		The Wildlife Protection Act, 1972, amended in 2003 and 2006	Not applicable, as there are no wildlife protected 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	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 Annexure 8)

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,</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>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 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"> • Conservation and restoration of buildings at Qila Mubarak. • Conservation works to be done to architectural and decorative details. • Adaptive reuse of area between Qila Androon and outer wall for museum. • Landscaping and Site Development: <ul style="list-style-type: none"> ○ Landscaping and site development of the inner areas of Qila Mubarak ○ Provision of adequate lighting and internal signage's. ○ Provision of visitor facilities and services. • Rerouting the electric cables currently running across the fort <p>Capacity building for tourism development and management.</p>

S. No.	Subproject Selection Criteria	Package 6/5: Patiala Heritage Conservation and Tourism Development Project (Qila Mubarak)
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.
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 - 9)

Location	Value	Standards
1. At construction site 2. At Qila Mubarak	60 dB(A) 50 dB(A) The observed values are found to be less than the prescribed limits as stipulated in the CPCB Noise Quality Standard for commercial area/ zone	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 - 9)

Location	Parameter	Value	Standard
In the vicinity of the construction site, at the location advised by the Environment Specialist of the DSC	PM ₁₀ , µg/m ³	90.0	100.0
	PM _{2.5} , µg/m ³	45.0	60.0
	Oxides of Sulphur, µg/m ³	9.0	80.0
	Oxides of Nitrogen, µg/m ³	17.7	80.0
	Carbon monoxide, mg/m ³	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	Package 7/7: Establishment of Tourism Facilities and Infrastructure showcasing of Sikh Culture, Chamkaur Sahib (Civil Works)	<ul style="list-style-type: none"> • Construction of TRC (Tourist Reception Centre) • Provision of garden lighting and high mast lighting. • Construction of the main entrance gate • Provision of visitor facilities like toilets, drinking water facilities etc • Fitting and fixtures • Display materials • Provision Services such as electrical, plumbing, HVAC etc 	08 June 2015	06 Dec 2016 (Extended upto 30 th June, 2017)	20.0%	<ul style="list-style-type: none"> • Kiosk brick work under progress. • Retaining wall first lift cast has been completed, second shuttering and reinforcement is under progress • Landscaping is under progress. • Bus parking wall first lift cast second lift shuttering under progress. • Flooring finishing work under progress of open air theatre. • Red stone flooring replaced in the open air theatre seating area. 	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
Package 7/7: Establishment of Tourism Facilities and Infrastructure	<ul style="list-style-type: none"> • Construction of TRC (Tourist Reception Centre) • Provision of garden lighting and high 	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
showcasing of Sikh Culture, Chamkaur Sahib (Civil Works)	mast lighting. <ul style="list-style-type: none"> • Construction of the main entrance gate • Provision of visitor facilities like toilets, drinking water facilities etc • Fitting and fixtures • Display materials • Provision of services such as electrical, plumbing, HVAC etc 		
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, 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
Package 7/7: 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)

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 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"> • Construction of TRC (Tourist Reception Centre) • Provision of garden lighting and high mast lighting. • Construction of the main entrance gate • Provision of visitor facilities like toilets, drinking water facilities etc • Fitting and fixtures • Display materials • Provision Services such as electrical, plumbing, HVAC etc
3	Design Criteria	<p>Civil structure (parking and TRC centre inclusive of ramps, staircases and toilets).</p> <p>Landscape – Hardscape –Pavement, signage, lighting, bollards, chain barriers; Softscape – plant material</p> <p>Infrastructure – 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.

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
7. 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
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 Annexure -2).	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 - 10)

Location	Value	Standards
In the vicinity of the construction site, at the location advised by the Environment Specialist of the DSC	<p>The observed values of 65.0 dB (A) at construction site is found to be within the prescribed limits in comparison with the CPCB Noise Quality Standard for commercial area/ zone.</p> <p>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</p>	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 - 10)

Location	Parameter	Value	Standard
In the vicinity of the construction site, at the location advised by the Environment Specialist of the DSC	PM ₁₀ , µg/m ³	82.1	100.0
	PM _{2.5} , µg/m ³	40.2	60.0
	Oxides of Sulphur, µg/m ³	3.0	80.0
	Oxides of Nitrogen, µg/m ³	5.0	80.0
	Carbon monoxide, mg/m ³	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
	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.

VI. PACKAGE 8/9: STRUCTURES CONSERVATION AT GOBINDGARH FORT

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	Lot 1 - Conservation at Gobindgarh Fort Structures	Conservation and structural stabilization of the fort walls, bastions and moat	08 Feb 2016	07 Aug 2017	15.0%	<ul style="list-style-type: none"> Removal/ clearing of wild vegetation is being carried out that has grown on the fort wall 	Work is in progress.
2	Lot 2 - Conservation at Gobindgarh Fort Structures	Conservation and structural stabilization of the fort walls, bastions and moat	10 Nov 2015	27 Jan 2017	55.0%	<ul style="list-style-type: none"> Dismantling of damaged bricks and consolidation of brick work in progress Lime Plaster is in progress Removal of extra earth in progress Pitching wall is in progress Moat Area outer/ inner wall plaster in progress Fresco room area in progress Inner Rampart flooring preparation in progress Adjoining Rampart flooring, sub base preparation in progress Brick flooring work is in progress 	Work is in progress. The left out works are Leveling the moat area to the center drain, Landscaping works & Pathway works

b. Compliance status with Government Environmental Regulations:

Package No	Sub Project Component/Packages	Clearance/ required	Approval	Current Status
Package 8/9: Structures Conservation	Conservation and structural stabilization of the fort walls, bastions and moat	Disposal plan for extraneous material is required	Disposal plan for extraneous material is as per the plan.	Disposal of extraneous material is as per the plan.

Package No	Sub Component/Project Packages	Clearance/ required	Approval	Current Status
at Gobindgarh Fort	Other Environmental Regulations			
		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 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:

S. No.	Environmental Safeguard related Loan Covenants	Compliance Status
Package 8/9: 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>All ADB safeguards are being followed.</p> <p>IEE and EMP are being implemented in</p>

S. No.	Environmental 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 in 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>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 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	Designs proposed are in accordance to	Satisfactory	Exposed steel and concrete is being

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
be avoided.	architectural character of place.		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-identified disposal locations.	Work being carried out as per plan	Satisfactory	Contractors have been directed to ensure proper 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 Annexure -2).	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 - 11)

Location	Value	Standards
In the vicinity of the construction site, at the location advised by the Environment Specialist of the DSC	The observed value of 61.7 dB (A) is found to be less than the prescribed limits in comparison with the CPCB Noise Quality Standard for commercial area/ zone .	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 ₁₀ , µg/m ³	71.0	100.0
	PM _{2.5} , µg/m ³	54.0	60.0
	Oxides of Sulphur, µg/m ³	16.0	80.0
	Oxides of Nitrogen, µg/m ³	21.0	80.0
	Carbon monoxide mg/m ³	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
	Package 8/9: 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.	Package 10/14: Last mile Connectivity to Cultural Sites in Western Circuit	<ul style="list-style-type: none"> Upgradation and strengthening of the exiting road Upgradation/ Relaying of PCC at certain stretches Provision of 1 m wide berm (Brick on edge) on both sides Provision of storm water drainage system, along both sides of road Upgradation of culverts. Widening of minor bridges Provision of adequate footpaths 	22 May 2015	21 Nov 2016 (Extended upto 30 th June, 2017)	75%	<ul style="list-style-type: none"> Construction of drain Construction of culverts Strengthening of the existing road 	Recommendations of the Road experts of PMC & DSC have been forwarded to contractor to rectify the defects in road works

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

Package No	Sub Component/Packages	Project	Clearance/ Approval required	Current Status
Package 10/14: Last mile Connectivity to Cultural Sites in Western Circuit	<ul style="list-style-type: none"> Upgradation and strengthening of the exiting road Upgradation/ Relaying of PCC at certain stretches Provision of 1 m wide berm (Brick on edge) on both sides Provision of storm water drainage system, along both sides of road Upgradation of culverts. Widening of minor bridges Provision of adequate 		Disposal plan for extraneous material is required.	Disposal of extraneous material is as per the plan.
			Other Environmental Regulations	
			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 been sourced from

Package No	Sub Component/Packages	Project	Clearance/ Approval required	Current Status
	footpaths			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
Package 10/14: 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>In the event that any unanticipated</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</p>

Package no.	Safeguard related Loan Covenants	Compliance Status
	<p>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>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"> • Upgradation and strengthening of the exiting road • Upgradation/ Relaying of PCC at certain stretches • Provision of 1 m wide berm (Brick on edge) on both sides • Provision of storm water drainage system, along both sides of road • Upgradation of culverts. • Widening of minor bridges • Provision of adequate footpaths

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 footwear and protective goggles.	Continuous monitoring will be done to ensure all the workers are using PPE's.	Satisfactory (Photographs are attached as Annexure -2).	Continuous monitoring is required

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
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
	Package 10/14: 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 Works	Expected date of Completion	Physical Progress till date	Type of Work presently Conducted	Remarks
1.	Package 13/20: 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"> • Removal of vegetation, repair works • Reconstruction of fallen roofs • Re-plastering the building. • Provision of Services such as Electrical, Plumbing, Firefighting, HVAC etc 	25 July 2015	24 Jan 2017	14.0%	<ul style="list-style-type: none"> • Scrapping of old paint • Ceiling paint • Consolidation of brick work • G.I sheet for roof • Roofing, Painting & Testing • Plumbing of internal toilets 	The project completion time is likely to be extended; meanwhile the Contractor has been advised to increase the progress of work by deploying more labours.

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

Package No	Sub Component/Packages	Project	Clearance/ Approval required	Current Status
Package 13/20: 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"> • Removal of vegetation, repair works • Reconstruction of fallen roofs • Re-plastering the building. • Provision of Services such as Electrical, Plumbing, Firefighting, HVAC etc. 		Disposal plan for extraneous material is required.	Disposal of extraneous material is 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

Package No	Sub Component/Packages	Project	Clearance/ Approval required	Current Status
				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 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	The Project is undertaken, and the Project facilities are designed, constructed, implemented, operated, and	All ADB safeguards are being followed.

Package no	Environmental Safeguard related Loan Covenants	Compliance Status
	<p>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>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 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"> • Removal of vegetation, repair works • Reconstruction of fallen roofs • Re-plastering the building. • Provision of Services such as Electrical, Plumbing, Firefighting, HVAC etc
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	Work being carried out as per plan	Satisfactory (Photographs are attached	Continuous monitoring will be done to ensure all the workers are using

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
mortars, concrete etc., will be provided with protective footwear and protective goggles.		as Annexure -2).	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 - 12)

Location	Value	Standards
In the vicinity of the construction site, at the location advised by the Environment Specialist of the DSC	The observed value of 53.5 dB (A) is found to be less than the prescribed limits in comparison with the CPCB Noise Quality Standard for commercial area/ zone.	Within the CPCB standard value of 65db(A)

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 ₁₀ , µg/m ³	61.0	100.0
	PM _{2.5} , µg/m ³	48.0	60.0
	Oxides of Sulphur, µg/m ³	9.0	80.0
	Oxides of Nitrogen, µg/m ³	14.0	80.0
	Carbon monoxide mg/m ³	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	Commencement of Civil Works	Expected date of Completion	Physical Progress till date	Type of Work presently Conducted	Remarks
1.	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	Conservation Works at Town Hall - <ul style="list-style-type: none"> Consolidation of walls, repairs, restoration Conservation of doors and windows. Preservation of areas with historic significance 	15 Feb 2016	14 Aug 2017	45.0%	<ul style="list-style-type: none"> Light fitting & Cleaning work in progress Wood work in progress Finishing for staircase (internal) in progress Erection of spiral staircase in progress 	The Contractor has been asked 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
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	Conservation Works at Town Hall - <ul style="list-style-type: none"> Consolidation of walls, repairs, restoration Conservation of doors and windows. Preservation of areas with historic significance 	Disposal plan for extraneous material is required.	Disposal of extraneous material is 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)

Package No	Sub Project Component/Packages	Clearance/ Approval required	Current Status
			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, 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 T-3/9/11: 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 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</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>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 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"> • Conservation Works at Town Hall - <ul style="list-style-type: none"> ○ Consolidation of walls, repairs, and restoration ○ Conservation of doors and windows; and ○ Preservation of areas with historic significance
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 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 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 - 13)

Location	Value	Standards
In the vicinity of the construction site, at the location advised by the Environment Specialist of the DSC	The observed value of 51.8 dB (A) is found to be less than the prescribed limits in comparison with the CPCB Noise Quality Standard for commercial area/ zone.	Within the CPCB standard value of 65db(A)

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 ₁₀ , µg/m ³	58.0	100.0
	PM _{2.5} , µg/m ³	39.0	60.0
	Oxides of Sulphur, µg/m ³	7.0	80.0
	Oxides of Nitrogen, µg/m ³	12.0	80.0
	Carbon monoxide mg/m ³	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 T-3/9/11: 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

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 visiti
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

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

Place: Changigarh

Date: 28/8/14

Signature MRB
Department /owner

Director,
Cultural Affairs Archaeology &
Museums, 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 (Mouls)
 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

MRB

Signature MRB

Department/Organisation/Owner

(Official Stamp)

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

Counter Signed

Deputy Commissioner
Fatehgarh Sahib

Annexure – 2

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



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

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

Noise Quality Monitoring (Tomb of Alfarsani)

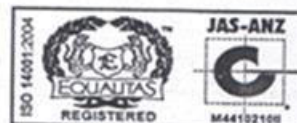


**CHANDIGARH POLLUTION
TESTING LABORATORY**
(Environmental Monitoring, EIA, NOC, ETP, STP)

Website : www.cptl.co.in

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, cptl126@gmail.com, lab@cptl.co.in



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

TEST CERTIFICATE

REPORT NO: IH/2016/11/02 (N)

REPORTING DATE: 15.11.2016

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:	10-11-2016	Sampling Location:	Surrounding of Alfarsani Tomb
Sample Identification No:	CPTL/SPL/PB/2016/11/04 (AN)	Environmental Conditions:	Clear Sky
Nature of Sample:	Noise Level	Monitoring Done By:	R.K. Mukherjee

S. No.	Location (Silence Zone)	Value in dB(A) Average		Test Method
		Day Time (1 Hour)	Night Time (1 Hour)	
01.	Surrounding of Alfarsani Tomb	41.9	34.4	CPCB/OSHA
Prescribed Standard		50	40	--

Handwritten signature: T. Anand
Handwritten text: SEE CPV

Handwritten signature: Sumitava Dutta
(Chemist In-Charge)
Date: 15/11/2016
Sumitava Dutta

Handwritten signature: R.K. Mukherjee
(Authorized Sign.)
Date: 15/11/2016
R.K. Mukherjee
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.

Chandigarh Pollution Testing Lab

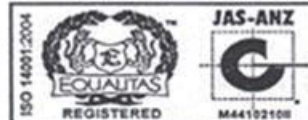
Air Quality Monitoring (Tomb of Alfasani)



Website : www.cptl.co.in

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, cptle126@gmail.com, lab@cptl.co.in



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

TEST CERTIFICATE

REPORT NO: IH/2016/11/01 (A)

REPORTING DATE: 15.11.2016

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.:	10-11-2016	Location of Sampling:	Surrounding of Alfisani Tomb
Date of Sample Collection.:	10-11-2016	Environmental Conditions:	Clear Sky
Sample Identification No.:	CPTL/SPL/PB/2016/11/03(A)	Analysis Duration:	11-11-2016 to 14-11-2016
Nature of Sample:	Ambient Air	Sample Collected By:	R.K. Mukherjee

TECHNICAL DATA

1.	Location of sampling station	Surrounding Alfisani Tomb
2.	Instrument used for sampling	RDS & FPS
3.	Flow rate of sampling for PM ₁₀	1.18 m ³ /min
4.	Flow rate of sampling for PM _{2.5}	1.0 m ³ /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 TH NOVEMBER, 2009	TEST METHOD
Particulate Matter (PM ₁₀), µg/m ³	57.6	100	IS 5182 (P-23): 2006, (RA - 2012)
Particulate Matter (PM _{2.5}), µg/m ³	35.0	60	SP 61 Issue Date-04-08-2012
Sulphur dioxide (SO ₂), µg/m ³	8.7	80	IS 5182 (P-2): 2001, (RA - 2012)
Nitrogen Dioxide (NO ₂), µg/m ³	21.3	80	IS 5182 (P-6): 2006, (RA - 2012)
Carbon monoxide (CO), mg/m ³	0.66	4	IS 5182 (P-10): 1999, (RA - 2009)

(Chemist in-Charge)
Date: 15/11/2016

Sumitava Dutta

S. E. (P. U.)

(Authorized Sign)
Date: 15/11/2016
Sital Singh
CEO

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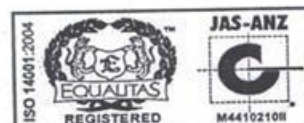
Noise Quality Monitoring (Tomb of Bibi Taj)



Website : www.cptl.co.in

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, cptle126@gmail.com, 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/2016/11/02(AN)

REPORTING DATE: 15.11.2016

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:	10-11-2016	Sampling Location:	Surrounding of Bibi Taj
Sample Identification No:	CPTL/SPL/PB/2016/11/02 (AN)	Environmental Conditions:	Clear Sky
Nature of Sample:	Noise Level	Monitoring Done By:	R.K. Mukherjee

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	42.0	34.8	CPCB/OSHA
Prescribed Standard		50	40	--

Handwritten signature
S.E. (PIV)

Handwritten signature
(Chemist In-Charge)
Date: 15/11/2016
Sumitava Dutta

Handwritten signature
(Authorized Sign.)
Date: 15/11/2016
Sital Singh
CEO
Chandigarh Pollution Testing Lab

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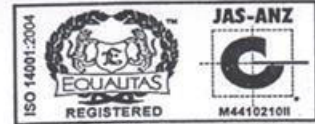
Air Quality Monitoring (Tomb of Bibi Taz)



Website : www.cptl.co.in

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Lab : E-126, Phase-VII, Indl. Area, Mohali - 160055 ☎ : 0172-5090312; e-mail : sital_cptlmohali@yahoo.co.in, cptle126@gmail.com, lab@cptl.co.in



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TEST CERTIFICATE

REPORT NO: IH/2016/11/01 (A)

REPORTING DATE: 15.11.2016

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.:	10-11-2016	Location of Sampling:	Surrounding of Bibi Taj Tomb
Date of Sample Collection.:	11-11-2016	Environmental Conditions:	Clear Sky
Sample Identification No.:	CPTL/SPL/PB/2016/11/01(A)	Analysis Duration:	11-11-2016 to 14-11-2016
Nature of Sample:	Ambient Air	Sample Collected By	R.K. Mukherjee

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 ₁₀	1.15 m ³ /min
4.	Flow rate of sampling for PM _{2.5}	1.0 m ³ /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 TH NOVEMBER, 2009	TEST METHOD
Particulate Matter (PM ₁₀), µg/m ³	61.4	100	IS 5182 (P-23): 2006, (RA - 2012)
Particulate Matter (PM _{2.5}), µg/m ³	38.8	60	SP 61 Issue Date-04-08-2012
Sulphur dioxide (SO ₂), µg/m ³	9.3	80	IS 5182 (P-2): 2001, (RA - 2012)
Nitrogen Dioxide (NO ₂), µg/m ³	24.3	80	IS 5182 (P-6): 2006, (RA - 2012)
Carbon monoxide (CO), mg/m ³	0.62	4	IS 5182 (P-10):1999, (RA - 2009)

(Chemist In-Charge)
Date: 15/11/2016

Sumitava Dutta

SE (P10)

(Authorized Signatory)
Date: 15/11/2016

Sital Singh

CEO

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Chandigarh Pollution Testing Lab

Noise Quality Monitoring (Near old hotel)



Eco Laboratories & Consultants Pvt. Ltd.

NABL / MOEF / PPCB / HSPCB / BIS approved Laboratory

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

CIN : U74140PB2011PTC034739



TEST REPORT

PPCB-Ref. No. Lab/3233892

Dated-30.09.2011

Test Report No. :EL121216GN005		Page No. 1/1
Customer	Raj Putana Construction Pvt. Ltd. Const. of Imperial Highway Heritage Conservation & Visitor Facility Development. Lot No.1 Conservation Aam Khas Bagh Fatehgarh Sahib Punjab	
Work Order No. & Date	Telephonic Order Dt.: 09/12/2016	
Type of Sample	Ambient Noise	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	12/12/2016	
Sampling Location	Near Old Hotel	
Sampling Protocol	IS: 9889:1981 R-2002 and as per customers requirements	
Date of Receipt of Sample	12/12/2016	
Period of Analysis	12/12/2016 To 13/12/2016	
Date of Reporting	15/12/2016	
Testing Protocol	IS 9889: 1981 R-2002	
Environmental Condition	Normal	

RESULTS

S.No.	Test Parameter	Units	Result	Limit	Method
1	Ambient Day Time Noise Levels 1 Hour Leq	dB (A)	57.2	55	IS: 9889:1981 R-2002

Remarks (if any)

End of Report

For Eco Laboratories & Consultants Pvt. Ltd.

Authorized Signatory

Ramandeep Singh
Lab Incharge

Manpreet
SE (P.V.)



PTO

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

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

Air Quality Monitoring (Near old hotel)



Eco Laboratories & Consultants Pvt. Ltd.

NABL / MOEF / PPCB / HSPCB / BIS approved Laboratory
ISO - 9001 : 2008, 14001:2008 OHSAS-18001:2007
CIN : U74140PB2011PTC034739



Not Valid for Consent Purpose

TEST REPORT

PPCB-Ref. No. Lab/3238892
Dated-30.09.2011

Test Report No. :EL121216GA001	Page No. 1/1
Customer	Raj Putana Construction Pvt. Ltd. Const. of Imperial Highway Heritage Conservation & Visitor Facility Development. Lot No.1 Conservation Aam Khas Bagh Fatehgarh Sahib Punjab
Work Order No. & Date	Telephonic Order Dt.: 09/12/2016
Type of Sample	Ambient Air Quality
Mode of Collection of Sample	Sampling by laboratory
Date of Sampling	12/12/2016
Sampling Location	Near Old Hotel
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines and Customer's Requirements.
Date of Receipt of Sample	12/12/2016
Period of Analysis	12/12/2016 To 15/12/2016
Date of Reporting	15/12/2016
Testing Protocol	NAAQS 2009
Environmental Condition	Normal

RESULTS

S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
1	Particulate Matter (PM 10)	µg/m ³	72.3	100	IS:5182 (P-23) 2004
2	Particulate Matter (PM 2.5)	µg/m ³	28.9	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 ₂)	µg/m ³	11.10	80	IS:5182 (P-2) 2001
4	Nitrogen Oxides (as NO ₂)	µg/m ³	23.56	80	IS:5182 (P-6) 2006
5	Carbon Monoxide (CO)	mg/m ³	<1.5	04	Lab SOP EL-A2-CO Issue 01 Dated 1.6.14 Electrochemical Method- Manufacturer's Manual

Remarks (if any)

Ramprakash
Lab Incharge

End of Report

For Eco Laboratories & Consultants Pvt. Ltd.

Authorized Signatory

Manjiv
scrips



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

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

Noise Quality Monitoring (Near Nav Ghar)



Eco Laboratories & Consultants Pvt. Ltd.

NABL / MOEF / PPCB / HSPCB / BIS approved Laboratory

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

CIN : U74140PB2011PTC034739



TEST REPORT

PPCB-Ref. No. Lab/3238892
Dated-30.09.2011

Test Report No. :EL121216GN006		Page No. 1/1
Customer	Raj Putana Construction Pvt. Ltd. Const. of Imperial Highway Heritage Conservation & Visitor Facility Development. Lot No.1 Conservation Aam Khas Bagh Fatehgarh Sahib Punjab	
Work Order No. & Date	Telephonic Order Dt.: 09/12/2016	
Type of Sample	Ambient Noise	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	12/12/2016	
Sampling Location	Near Nav Ghar	
Sampling Protocol	IS: 9989:1981 R-2002 and as per customers requirements	
Date of Receipt of Sample	12/12/2016	
Period of Analysis	12/12/2016 To 13/12/2016	
Date of Reporting	15/12/2016	
Testing Protocol	IS 9989: 1981 R-2002	
Environmental Condition	Normal	

RESULTS

S.No.	Test Parameter	Units	Result	Limit	Method
1	Ambient Day Time Noise Levels 1 Hour Leq	dB (A)	58.6	55	IS: 9989:1981 R-2002

Remarks (if any)

End of Report

For Eco Laboratories & Consultants Pvt. Ltd.

Authorized Signatory

Rama Prasad Singh
Lab Incharge

Rama Prasad Singh
Lab Incharge

PTO

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

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

Air Quality Monitoring (Near Nav Ghar)



Eco Laboratories & Consultants Pvt. Ltd.

NABL / MOEF / PPCB / HSPCB / BIS approved Laboratory

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

CIN : U74140PB2011PTC034739



PPCB-Ref. No. Lab/3238892
Dated-30.09.2011

TEST REPORT

Test Report No. :EL121216GA002		Page No. 1/1
Customer	Raj Putana Construction Pvt. Ltd. Const. of Imperial Highway Heritage Conservation & Visitor Facility Development. Lot No.1 Conservation Aam Khas Bagh Fatehgarh Sahib Punjab	
Work Order No. & Date	Telephonic Order Dt.: 09/12/2016	
Type of Sample	Ambient Air Quality	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	12/12/2016	
Sampling Location	Near Nav Ghar	
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines and Customer's Requirements.	
Date of Receipt of Sample	12/12/2016	
Period of Analysis	12/12/2016 To 15/12/2016	
Date of Reporting	15/12/2016	
Testing Protocol	NAAQS 2009	
Environmental Condition	Normal	

RESULTS

S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
1	Particulate Matter (PM 10)	µg/m ³	65.8	100	IS:5182 (P-23) 2004
2	Particulate Matter (PM 2.5)	µg/m ³	31.3	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 ₂)	µg/m ³	10.27	80	IS:5182 (P-2) 2001
4	Nitrogen Oxides (as NO ₂)	µg/m ³	22.43	80	IS:5182 (P-6) 2006
5	Carbon Monoxide (CO)	mg/m ³	<1.5	04	Lab SOP EL-A2-CO Issue 01 Dated 1.6.14 Electrochemical Method- Manufacturer's Manual

Remarks (if any)

Ramprasad Singh
Lab Incharge

End of Report

For Eco Laboratories & Consultants Pvt. Ltd.

[Signature]
Authorized Signatory

PTO

Noise Quality Monitoring (Near Mehtabi Bhag)



Eco Laboratories & Consultants Pvt. Ltd.

NABL / MOEF / PPCB / HSPCB / BIS approved Laboratory

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

CIN : U74140PB2011PTC034739



Not Valid for Consent Purpose

PPCB-Ref. No. Lab/3238892
Dated-30.09.2011

TEST REPORT

Test Report No. :EL121216GN007		Page No. 1/1
Customer	Raj Putana Construction Pvt. Ltd. Const. of Imperial Highway Heritage Conservation & Visitor Facility Development. Lot No.1 Conservation Aam Khas Bagh Fatehgarh Sahib Punjab	
Work Order No. & Date	Telephonic Order Dt.: 09/12/2016	
Type of Sample	Ambient Noise	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	12/12/2016	
Sampling Location	Near Mehtabi Bagh	
Sampling Protocol	IS: 9989:1981 R-2002 and as per customers requirements	
Date of Receipt of Sample	12/12/2016	
Period of Analysis	12/12/2016 To 13/12/2016	
Date of Reporting	15/12/2016	
Testing Protocol	IS 9989: 1981 R-2002	
Environmental Condition	Normal	

RESULTS

S.No.	Test Parameter	Units	Result	Limit	Method
1	Ambient Day Time Noise Levels 1 Hour Leq	dB (A)	58.3	55	IS: 9989:1981 R-2002

Remarks (if any)

End of Report

For Eco Laboratories & Consultants Pvt. Ltd.

Authorized Signatory

Lab Incharge

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

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

Air Quality Monitoring (Near Mehtabi Bhag)

Not Valid for Consent Purpose



Eco Laboratories & Consultants Pvt. Ltd.

NABL / MOEF / PPCB / HSPCB / BIS approved Laboratory

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

CIN : U74140PB2011PTC034739



TEST REPORT

PPCB-Ref. No. Lab/3238392

Dated-30.09.2011

Test Report No. :EL121216GA003		Page No. 1/1
Customer	Raj Putana Construction Pvt. Ltd. Const. of Imperial Highway Heritage Conservation & Visitor Facility Development. Lot No.1 Conservation Aam Khas Bagh Fatehgarh Sahib Punjab	
Work Order No. & Date	Telephonic Order Dt.: 09/12/2016	
Type of Sample	Ambient Air Quality	
Mode of Collection of Sample	Sampling by laboratory	
Date of Sampling	12/12/2016	
Sampling Location	Near Mehtabi Bagh	
Sampling Protocol	IS: 5182 (P-14) 2000, CPCB Guidelines and Customer's Requirements.	
Date of Receipt of Sample	12/12/2016	
Period of Analysis	12/12/2016 To 15/12/2016	
Date of Reporting	15/12/2016	
Testing Protocol	NAAQS 2009	
Environmental Condition	Normal	

RESULTS

S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
1	Particulate Matter (PM 10)	µg/m ³	69.5	100	IS:5182 (P-23) 2004
2	Particulate Matter (PM 2.5)	µg/m ³	27.6	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 ₂)	µg/m ³	12.61	80	IS:5182 (P-2) 2001
4	Nitrogen Oxides (as NO ₂)	µg/m ³	21.92	80	IS:5182 (P-6) 2006
5	Carbon Monoxide (CO)	mg/m ³	<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

For Eco Laboratories & Consultants Pvt. Ltd.

Ramprakash Singh
Lab Incharge

Authorized Signatory

Ramprakash Singh
S.S.P.W.



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

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

PTC

Annexure – 4

NoC for Ropar Wetlands

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

ਸਹਾਇਕ ਡਾਇਰੈਕਟਰ ਮੱਛੀ ਪਾਲਣ,
ਰੂਪਨਗਰ।

ਸੇਵਾਵਿਖੇ,

ਚੀਫ ਜਨਰਲ ਮੈਨੇਜਰ,
ਪੰਜਾਬ ਹੈਰੀਟੇਜ 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

ਉਪਰੋਕਤ ਵਿਸ਼ੇ ਤੇ ਹਵਾਲੇ ਅਧੀਨ ਪੱਤਰ ਦੇ ਸਬੰਧ ਵਿੱਚ ਆਪ ਜੀ ਨੂੰ ਸੂਚਿਤ ਕੀਤਾ ਜਾਂਦਾ ਹੈ, ਕਿ ਟੂਰਿਜ਼ਮ ਵਿਭਾਗ ਵੱਲੋਂ ਮੱਛੀ ਪ੍ਰੋਗਰਾਮ ਫਾਰਮ ਕੰਟਰੀ 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)। ਪਾਰਸਿੰਗ ਲਈ ਜ਼ਰੂਰੀ ਅਤੇ ਪਾਬ ਵੇਅ ਬਨਾਉਣ ਸਬੰਧੀ ਮਾਨਯੋਗ ਵਿੱਤੀ ਕਮਿਸ਼ਨਰ ਪਸ਼ੂ ਪਾਲਣ, ਮੱਛੀ ਪਾਲਣ ਅਤੇ ਡੇਅਰੀ ਵਿਕਾਸ ਵਿਭਾਗ ਪੰਜਾਬ ਜੀ ਦੀ ਪ੍ਰਧਾਨਗੀ ਹੇਠ ਮਿਤੀ 17-7-2009 ਨੂੰ ਮਿੰਨੀ ਸਕੱਤਰ ਚੰਡੀਗੜ੍ਹ ਵਿਖੇ ਹੋਈ ਮੀਟਿੰਗ ਵਿੱਚ ਲਏ ਗਏ ਫੈਸਲੇ ਅਨੁਸਾਰ ਇਜਾਜ਼ਤ ਦੇ ਦਿੱਤੀ ਗਈ ਸੀ (ਕਾਰਵਾਈ ਦੀ ਕਾਪੀ ਨੱਥੀ ਹੈ) ਅਤੇ ਡਾਇਰੈਕਟਰ ਓ ਵਾਰਡਨ ਮੱਛੀ ਪਾਲਣ, ਵਿਭਾਗ ਪੰਜਾਬ ਜੀ ਦੇ ਆਪ ਜੀ ਵੱਲ ਮੀਮੋ ਨੰ: 12/3/09/ਐਫ.ਈ.ਓ/ਜੀ.ਏ/11971 ਮਿਤੀ 25-9-09 ਰਾਹੀਂ ਇਤਰਾਜ਼ਜ਼ਹੀਦਤਾ 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 ਪ੍ਰੋਗਰਾਮ ਫਾਰਮ ਕੰਟਰੀ (ਰੂਪਨਗਰ) ਵਿਖੇ ਐਕੁਏਰੀਅਮ-ਕਮ-ਅਵੇਅਰਨੈਸ ਸੈਂਟਰ ਦੀ ਉਸਾਰੀ ਦਾ ਕੰਮ ਜੁਲਾਈ 2012 ਦੇ ਆਖਰੀ ਹਫ਼ਤੇ ਸ਼ੁਰੂ ਕੀਤਾ ਗਿਆ ਸੀ ਅਤੇ ਇੱਕ ਹਫ਼ਤੇ 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/ਜੀ.ਏ/12063 ਮਿਤੀ 19-11-2013 ਦੇ ਸਬੰਧ ਵਿੱਚ ਸੂਚਨਾ ਹਿੱਤ ਭੇਜਿਆ ਜਾਂਦਾ ਹੈ, ਜੀ।


ਸਹਾਇਕ ਡਾਇਰੈਕਟਰ ਮੱਛੀ ਪਾਲਣ,
ਰੂਪਨਗਰ।

21/2

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.

R/S
DFO WLL
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 Region

4/6/13

PM (Hr)

4.6.13

HANDIGARH

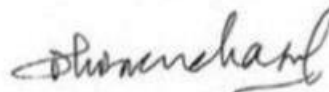
DATE: MAY 23, 2013

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

Noise Quality Monitoring*"Laboratory is a Temple where Search for Truth is actually made"*

ESTD-1974


**DR. UPPAL'S
TESTING & ANALYTICAL
LABORATORY (P) LTD.**
A GOVT. APPROVED LABORATORY

Cell : 09779180240, 09872622353

09888016830

Phones : Off. 0172-5097240.

Tel/Fax : 0172-2212240

Grams : UTALAB

SPECIALIST IN :

Soil Investigation & Testing for all types of Structure
Metallurgical Testing, Material Testing, Mix Designs
(Concrete, Bituminous, Mastic, Filtermedia)
Assessment of Road Crust/Overlay Thickness by
CBR and Benkelman Beam Deflection Techniques,
Water Testing for Industrial, Drinking & Construction
purpose etc.

ADDRESS : 240, Industrial Area,
Phase IX, S.A.S. Nagar, Mohali

Email : services@utalabindia@yahoo.com

services@utalabindia.com

Website : www.utalabindia.com



ISO 9001:2008
Quality Management System
Cert. No. 11382

TEST REPORT

To M/s Brightway Contractors & Developers, P.K Verma & Co., (JVS) Old Mall Mandi, Batala Distt: Gurdaspur. Description: Noise Monitoring.	Lab. ID No.	: UTALAB/5441/3b
	Date of Issue	: 03.01.2017
	Date of receipt	: 31.12.2016
	Your Ref.	: Verbal
	Specification Followed	: CPCB

Monitoring equipment: HTC, SOUND LEVEL METER. (SL-1352)**Time of sampling:** DAY TIME**Name of work:** Eco-Tourism Development of Harike & Ropar wetlands (Ropar).**TEST RESULTS:**

Sl. No.	Location	Readings Db (A)		Av. Level in Db (A)	CPCB Limits
		Min.	Max.		
1.	Near Interpretation Centre Ropar.	44	52	48	Max 50 dB (A)

Remarks: Client asked for above tests only.


ANALYST


AUTHORISED SIGNATORY

NOTES:

1. Sample collected by the client/ laboratory.
2. The results relate only to the sample tested.
3. Test certificate shall not be reproduced in full or part & cannot be used as an evidence in the courts of law without the written approval of the laboratory.
4. Samples will be destroyed after one month from the date of test report unless otherwise specified. Samples liable to decompose will be destroyed after testing.

Ambient Air Quality

"Laboratory is a Temple where Search for Truth is actually made"
ESTD-1974



**DR. UPPAL'S
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CBR and Benkelman Beam Deflection Techniques,
Water Testing for Industrial, Drinking & Construction
purpose etc.

ADDRESS : 240, Industrial Area,
Phase IX, S.A.S. Nagar, Mohali

Email : servicesutalabindia@yahoo.com
services@utalabindia.com

Website : www.utalabindia.com



JAS-ANZ



ISO 9001:2008
Quality Management System
Cert. No. 11382

TEST REPORT

To M/s Brightway Contractors & Developers, P.K Verma & Co., (JVS) Old Mall Mandi, Batala Distt: Gurdaspur. Description: Ambient air quality. Sampling on 31.12.2016.	Lab. ID No. : UTALAB/5441/3a
	Date of Issue : 03.01.2017
	Date of receipt : 31.12.2016
	Your Ref. : Verbal
	Specification Followed : IS: 5182

Description: Ambient air quality has been checked on 31.12.2016 by using the high volume sampler.

Name of work: Eco-Tourism Development of Harike & Ropar wetlands (Ropar).

Location: Near Interpretation Centre, Opposite Forest Log Hut at Ropar.

Sl. No.	Parameters	Results	Limits (Max.)
			Ecologically Sensitive Area
1.	Suspended Particulate Matter (SPM)- $\mu\text{g}/\text{m}^3$	70.4	100
2.	Sulphur Oxide (SO_x) - $\mu\text{g}/\text{m}^3$	3.6	80
3.	Nitrogen Oxide (NO_x) - $\mu\text{g}/\text{m}^3$	1.8	80
4.	Carbon monoxide (CO)- $\mu\text{g}/\text{m}^3$	Nil	02

Remarks: The above sample of ambient air monitored at above locations conforms to national ambient air quality schedules. CPCB notification.


ANALYST


AUTHORISED SIGNATORY

NOTES :

1. Sample collected by the client / laboratory.
2. The results relate only to the sample tested.
3. Test certificate shall not be reproduced in full or part & cannot be used as an evidence in the courts of law without the written approval of the laboratory.
4. Samples will be destroyed after one month from the date of test report unless otherwise specified. Samples liable to decompose will be destroyed after testing.

Annexure – 6

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 (Mohall)
Phone: 0172-2298010, 2298000 (Ext. 2201)
Fax: 0172-2298036.

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.**

NO. PWT/1520
Date: 27/5/2013

IDIPT, PHTPB
Receipt No. 128
D. 27/5/13
CHANDIGARH
24/5/13
M. (F.W. M.)

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.

Shirun Chhatbir
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.

Annexure – 7

Noise Quality Monitoring

"Laboratory is a Temple where Search for Truth is actually made"
ESTD-1974





**DR. UPPAL'S
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Assessment of Road Cryst/Overlay Thickness by
CBR and Benkelman Beam Deflection Techniques,
Water Testing for Industrial, Drinking & Construction
purpose etc.

ADDRESS : 240, Industrial Area,
Phase IX, S.A.S. Nagar, Mohali
Email : services@utalabindia@yahoo.com
services@utalabindia.com
Website : www.utalabindia.com

ISO 9001:2008
Quality Management System
Cert. No. 11382

TEST REPORT

To, The Project Manager PIU, IDIPT Ropar. Description: Noise Monitoring.	Lab. ID No. : UTALAB/5416/9b Date of Issue : 04.12.2016 Date of receipt : 02.12.2016 Your Ref. : Verbal Specification Followed : IS: 5182
--	--

Monitoring equipment: LUTRON, SOUND LEVEL METER.

Time of sampling: DAY TIME

Name of Site: Eco-Tourism Development of Wild Life Zoo, Chhatbir.


TEST RESULTS:

Sl. No.	Location	Readings Db (A)		Av. Level in Db (A)	CPCB Limits in Residential area
		Min.	Max.		
1.	Near Construction site of food plaza & Interpretation Centre	46	54	50	55 Db (A) Max.

Remarks: Client asked for above tests only.

ANALYSED BY
ANALYST

Reviewed by -
Ashutosh
SE-PIU




Technical Manager
AUTHORISED SIGNATORY

NOTES:

1. Sample collected by the client / laboratory.
2. The results relate only to the sample tested.
3. Test certificate shall not be reproduced in full or part & cannot be used as an evidence in the courts of law without the written approval of the laboratory.
4. Samples will be destroyed after one month from the date of test report unless otherwise specified. Samples liable to decompose will be destroyed after testing.

Ambient Air Quality

"Laboratory is a Temple where Search for Truth is actually made"
ESTD-1974




**DR. UPPAL'S
TESTING & ANALYTICAL
LABORATORY (P) LTD.**
A GOVT. APPROVED LABORATORY

Cell : 09779180240.09872622353
09888016830
Phones : Off. 0172-5097240.
Tel/Fax : 0172-2212240
Grams : UTALAB

SPECIALIST IN :
Soil Investigation & Testing for all types of Structure
Metallurgical Testing, Material Testing, Mix Designs
(Concrete, Bituminous, Mastic, Filtermedia)
Assessment of Road Cracks/Overlay Thickness by
CBR and Benkelman Beam Deflection Techniques,
Water Testing for Industrial, Drinking & Construction
purpose etc.

ADDRESS : 240, Industrial Area,
Phase IX, S.A.S. Nagar, Mohali
Email : servicesutalabindia@yahoo.com
services@utalabindia.com
Website : www.utalabindia.com



ISO 9001:2008
Quality Management
Cert. No. 11382

TEST REPORT

<p>To, The Project Manager PIU, IDIPT Ropar.</p> <p>Description: Ambient air quality. Sampling on 02.12.2016</p>	<p>Lab. ID No. : UTALAB/5416/9a</p> <p>Date of Issue : 04.12.2016</p> <p>Date of receipt : 02.12.2016</p> <p>Your Ref. : Verbal</p> <p>Specification Followed : IS: 5182</p>
--	---

Description: Ambient air quality has been checked on 02.12.2016 by using the high volume sample

Name of Work: Eco-tourism development of wildlife zoo-Chattbir.


Location: At main entrance gate near food plaza & Interpretation Centre.

Sl. No.	Parameters	Results	Limits (Max.)
			Ecologically Sensitive Area
1.	Suspended Particulate Matter (SPM)- $\mu\text{g}/\text{m}^3$	88.3	100
2.	Sulphur Oxide (SO_x)- $\mu\text{g}/\text{m}^3$	2.4	80
3.	Nitrogen Oxide (NO_x)- $\mu\text{g}/\text{m}^3$	0.15	80
4.	Carbon monoxide (CO)- $\mu\text{g}/\text{m}^3$	Nil	02

Remarks: The above samples of ambient air monitored at above locations conforms to national ambient air quality schedules. CPCB notification.

ANALYSED BY
ANALYST

Received By
Ajit Thakur
SE-PIU



Technical Manager
AUTHORISED SIGNATORY

NOTES :

1. Sample collected by the client / Laboratory.
2. The results relate only to the sample tested.
3. Test certificate shall not be reproduced in full or part & cannot be used as an evidence in the courts of law without the written approval of the laboratory.
4. Samples will be destroyed after one month from the date of test report unless otherwise specified. Samples liable to destruction will be destroyed after testing.

Annexure – 8

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 atPATIALA.....

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

Place: Chandigarh
Date: 27/8/14

Signature
.....
Department /owner

(Official Stamp)

Director,
Cultural Affairs Archaeology &
Museums, Punjab, Chandigarh

Counter Signed

.....
Deputy Commissioner
Deputy Commissioner
PATIALA
(Official Stamp)

CERTIFICATE AND UNDERTAKING

It is certified that: -

1. The QILA MUBARAK, PATIALA
(details of land/area/ building) Where
the DEVELOPMENT OF QILA MUBARAK, 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 – 9

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

Noise Quality Monitoring

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

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

NOISE MONITORING ANALYSIS REPORT

Test Report No. : ITL/ED/11.26.01
Dispatch Date : 26/11/2016

1. Laboratory Sample No.	ITL/11-16/210/01-02
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/2016/25
4. Type of sample	Noise Level
5. Date of sampling	24/11/2016

Test Results

Sr. No.	Location of Noise Measurement	Noise Level in dB(A) DayTime (Leq)
1.	Near construction site	60
2.	At qila	50
Regulatory Standards in respect of Noise		65dB (A)

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



ANALYST

AUTHORIZED SIGNATORY

NOTE:

1. Total liability of our laboratory is limited to the invoiced amount.
2. Report is valid for self-monitoring purposes of the industry only.
3. Sample 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 and should not be used in any advertising media without our special permission in writing.
6. Party asked for the above parameters only.

Satish
EE-PU

Pj
8000

Ambient Air Quality



INDUSTRIAL TESTING LABORATORY & CONSULTING HOUSE

(A GOVT. APPROVED TEST HOUSE)

Works & Regd. Office : Ghalori Gate, Patiala (Pb.) 147 001 Ph. : 0175-2322224, 2320175 (M) 92164-21540, 92161-21540 Email : itlcpatiala@gn

AMBIENT AIR QUALITY MONITORING ANALYSIS REPORT

Test Report No. : ITL/ED/11.28.01
Dispatch Date : 28/11/2016

1.	Laboratory Sample No.	ITL/11-16/210/01
2.	Issued to	Civil Engineer, Project Implementation Unit-Ropar #320, Giani Ziaf Singh Nagar, Ropar.
3.	Project	Patiala Heritage Conservation and Tourism Development Project (Qila Mubarak)-Ref. No. PIU-Ropar/Tr-3/QM/2016/26
4.	Type of Sample	Ambient Air Quality Monitoring
5.	Date of commencement of sample	24/11/2016
6.	Location of Sample Collection	Near Construction site.

Test Results

Sr. No.	Parameters	Results	Regulatory Standards (NAAQS)	Test method
1.	PM -10, ($\mu\text{g}/\text{m}^3$)	90	100	IS 5182(Part-23) : 2006
2.	PM -2.5, ($\mu\text{g}/\text{m}^3$)	45	60	IS 5182(Part-23) : 2006
3.	Oxides of Sulphur SO_2 , ($\mu\text{g}/\text{m}^3$)	9.0	80	IS 5182(Part-2) : 2001
4.	Oxides of Nitrogen NO_2 , ($\mu\text{g}/\text{m}^3$)	17.7	80	IS 5182(Part-6) : 2006
5.	Carbon monoxide CO , (mg/m^3)	N.D.	2.0	CO meter

ND: Not Detected.

ANALYST



AUTHORIZED SIGNATORY

NOTE:

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3. Sample 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 and should not be used in any advertisement media without our special permission in writing.
6. Party asked for the above parameters only.

Latish
S.E. PIU

Annexure – 10

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

Noise Quality Monitoring

 **ENVIRON TECH LABORATORIES**
(NABL ACCREDITED LAB.)
Plot No. 62, 1st Floor, JLPL Industrial Area, Airport Road,
Sector 82, S.A.S. Nagar (Mohali), Punjab
Tele. 9463000081, Mob. 94172-10081, 94172-20081
Email - envrontechlab72@yahoo.com

NOISE

Dated : 27/12/2016

TEST REPORT

REPORT NO. ETL/26/2016-17/1317A

Date-27.12.2016

1.	Laboratory Sample No.	ETL/05/2016-17/1324A
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	22.12.2016

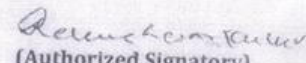
Sr. No.	Location	Results (Leq)	Standards (Leq)	Test Method
1	Average Around Project Site	65	75	IS:9989 Ref.2001

****End of Report****

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)

RAMESHWAR KUMAR
Technical Manager
Environ Tech Laboratories

Ambient Air Quality Monitoring



ENVIRON TECH LABORATORIES

(NABL ACCREDITED LAB.)

CHAMKAUR SAHIB

Plot No. 62, 1st Floor, JLPL Industrial Area, Airport Road,

Sector 82, S.A.S. Nagar (Mohali), Punjab

Tele. 9463000081, Mob. 94172-10081, 94172-20081

Email - environtechlab72@yahoo.com

(AIR)

Dated : 27/12/2016

ANALYSIS REPORT

REPORT NO. ETL/26/2016-17/1317

Date-27.12.2016

1.	Laboratory Sample No.	ETL/05/2016-17/1324
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	22.12.2016

TECHNICAL DATA & RESULTS

- 1) Location of sampling station : Near Musical Fountain
2) Instrument used for sampling : Respirable Dust Sampler
3) Average Manometer Reading : 1.3 m³/Min
4) Time period for sampling : 1440 Minute
5) Volume of Air Sampled : 1.87m³

	PARAMETERS	RESULTS	STANDARD	TEST METHOD
1.	PM ₁₀	82.1	100.0 µg/m ³	IS:5182(P-23)
2.	SO ₂	3	80.0 µg/m ³	IS:5182(P-2)
3.	NO ₂	5	80.0 µg/m ³	IS:5182(P-6)
4.	PM _{2.5}	40.2	60.0 µg/m ³	IS:5182(P-4)
5.	CO	ND	4.0 mg/m ³	IS:5182(P-10)
6.	Nickel (Ni)	ND	20.0 ng/m ³	BY AAS
7.	Arsenic (As)	ND	6.0 ng/m ³	BY AAS
8.	Lead (Pb)	ND	1.0 µg/m ³	IS:5182(P-22)
9.	Benzene (C ₆ H ₆)	ND	5.0 µg/m ³	IS:5182(P-11)
10.	Benzo(a)pyrene (BaP)	ND	1.0 ng/m ³	BY G.C
11.	Ammonia (NH ₃)	ND	400.0 µg/m ³	APHA-Air (401)
12.	Ozone (O ₃)	ND	180.0 µg/m ³	CPCB Guideline

End of Report

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)

RAAMESHWAR KUMAR
Technical Manager
Environ Tech Laboratories

Annexure – 11

Noise Quality Monitoring

ISO 9001 : 2008

Industrial Testing Laboratory & Consulting House

(A Govt. Approved Laboratory)

Analysis Report**NOISE LEVEL MONITORING ANALYSIS REPORT**

Test Report No. : ITL/ED/04

Dispatch Date : 26/12/2016

1.	Laboratory Sample No.	ITL/12-16/232/02
2.	Issued to	M/S CONSTRUCTION TECHNIQUE RAJDEEP J.V. MAHARASHTRA (GOBINDGARH FORT)
3.	Name of sample collecting officer	By Lab Representative
4.	Type of sample	Noise Level
5.	Date of sample collection	20/12/2016
7.	Location of sample collection	Inside Gobindgarh Fort Amritsar

Test Results

SN	Location of Sample Collection	Noise Level - Day Time (Leq)	Test Method
1.	Inside Fort	61.7	IS:9989:1981 R-2002
Regulatory Standards		65 dB (A)	


ANALYST
**AUTHORIZED SIGNATORY****(QM & TM)**

- NOTE:**
1. Total liability of our laboratory is limited to the invoiced amount.
 2. Report is valid for self-monitoring purposes of the industry only as per environmental protection act 1986.
 3. Sample will be destroyed after one month from the date of issue of test certificate unless otherwise specified.
 4. This report is not to be produced wholly or in part as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.

Ambient Air Quality Monitoring



ISO 9001 : 2008

Industrial Testing Laboratory & Consulting House

(A Govt. Approved Laboratory)

Analysis Report

AMBIENT AIR QUALITY MONITORING REPORT

Test Report No. : ITL/ED/03

Dispatch Date : 26/12/2016

1.	Laboratory Sample No.	ITL/12-16/232/01
2.	Issued to	M/S CONSTRUCTION TECHNIQUE RAJDEEP J.V. MAHARASHTRA (GOBINDGARH FORT)
3.	Name of sample collecting officer	By Lab Representative
4.	Type of sample	Ambient Air Quality Monitoring
5.	Date of sample collection	20/12/2016
6.	Date of sample receipt in lab	21/12/2016 at 10.00 am
7.	Location of sample collection	Inside Gobindgarh Fort Amritsar

Test Results

SN	Parameters	Results	Regulatory Standards (NAAQS)*	Test Method followed
1.	Particulate Matter, (size <10 µm), or PM ₁₀ , µg/m ³	71	100	IS: 5182 (Part-23) 2006,(RA2009)
2.	Particulate Matter, (size <2.5 µm), or PM _{2.5} , µg/m ³	54	60	IS: 5182(Part-23) 2006,(RA2009)
3.	Sulphur Dioxide, (SO ₂), µg/m ³	16	80	IS:5182 (Part 2) : 2001,(RA 2012)
4.	Nitrogen Dioxide,(NO ₂), µg/m ³	21	80	IS:5182 (Part 6) :2006,(RA 2012)
5.	Carbon Monoxide,(CO),mg/m ³	BDL	2.0	IS:5182 (Part 10) 1999,(RA 2003)

*NAAQS:-National ambient air quality standards, BDL – Below Detection Limits


ANALYST


AUTHORIZED SIGNATORY
(QM & TM)

- NOTE: - 1. Total liability of our laboratory is limited to the invoiced amount.
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4. This report is not to be produced wholly or in part as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.

Ghalori Gate, Patiala (Pb.) Ph. 0175-2320175, 2322224, (M) 99155-84242
Email : itlchpatiala@gmail.com Website : www.itlch.com

Annexure – 12

Noise Quality



Industrial Testing Laboratory & Consulting House

(A Govt. Approved Laboratory)

Analysis Report

NOISE LEVEL MONITORING ANALYSIS REPORT

Test Report No. : ITL/ED/08

Dispatch Date : 26/12/2016

1.	Laboratory Sample No.	ITL/12-16/232/02
2.	Issued to	M/S RAJPUTANA CONSTRUCTIONS (P) LTD. 13, PARIVAHAN MARG, C- SCHEME JAIPUR, RAJASTHAN
3.	Name of sample collecting officer	By Lab Representative
4.	Type of sample	Noise Level
5.	Date of sample collection	19/12/2016

Test Results

SN	Location of Sample Collection	Noise Level - Day Time (Leq)	Test Method
1.	Darbar Hall (Kapurthala)	53.5	IS:9989:1981 R-2002
Regulatory Standards		65 dB (A)	

dB (A) Leq: denotes the time weighted average of the level of sound in decibels on scale (A) which is relatable to human hearing.

**Leq: It is energy mean of the noise level over the specified period.

Note: Day time shall mean from 6.00a.m. to 10.00 P.M. Night time shall mean from 6.00a.m. to 10.00 P.M.

ANALYST

AUTHORIZED SIGNATORY
(QM & TM)

- NOTE: - 1. Total liability of our laboratory is limited to the invoiced amount.
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Air Quality



ISO 9001 : 2008

Industrial Testing Laboratory & Consulting House

(A Govt. Approved Laboratory)

Analysis Report

AMBIENT AIR QUALITY MONITORING REPORT

Test Report No. : ITL/ED/07
Dispatch Date : 26/12/2016

1.	Laboratory Sample No.	ITL/12-16/232/01
2.	Issued to	M/S RAJPUTANA CONSTRUCTIONS (P) LTD. 13, PARIVAHAN MARG, C- SCHEME JAIPUR, RAJASTHAN
3.	Name of sample collecting officer	By Lab Representative
4.	Type of sample	Ambient Air Quality Monitoring
5.	Date of sample collection	19/12/2016
6.	Date of sample receipt in lab	21/12/2016 at 10.00 am
7.	Location of sample collection	Darbar Hall (Kapurthala)

Test Results

SN	Parameters	Results	Regulatory Standards (NAAQS)*	Test Method followed
1.	Particulate Matter, (size <10 µm), or PM ₁₀ , µg/m ³	61	100	IS: 5182 (Part-23) 2006, (RA2009)
2.	Particulate Matter, (size <2.5 µm), or PM _{2.5} , µg/m ³	48	60	IS: 5182 (Part-23) 2006, (RA2009)
3.	Sulphur Dioxide, (SO ₂), µg/m ³	09	80	IS: 5182 (Part 2) : 2001, (RA 2012)
4.	Nitrogen Dioxide, (NO ₂), µg/m ³	14	80	IS: 5182 (Part 6) : 2006, (RA 2012)
5.	Carbon Monoxide, (CO), mg/m ³	BDL	2.0	IS: 5182 (Part 10) 1999, (RA 2003)

*NAAQS:-National ambient air quality standards, BDL – Below Detection Limits


ANALYST


AUTHORIZED SIGNATORY
(QM & TM)

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

Ghalori Gate, Patiala (Pb.) Ph. 0175-2320175, 2322224, (M) 99155-84242
Email : itlchpatiala@gmail.com Website : www.itlch.com

Annexure – 13

Noise Quality



ISO 9001 : 2008

Industrial Testing Laboratory & Consulting House

(A Govt. Approved Laboratory)

Analysis Report

NOISE LEVEL MONITORING ANALYSIS REPORT

Test Report No. : ITL/ED/10
Dispatch Date : 26/12/2016

1.	Laboratory Sample No.	ITL/12-16/232/02
2.	Issued to	M/S CONSTRUCTION TECHNIQUE
3.	Name of sample collecting officer	By Lab Representative
4.	Type of sample	Noise Level
5.	Date of sample collection	19/12/2016

Test Results

SN	Location of Sample Collection	Noise Level - Day Time (Leq)	Test Method
1.	Town Hall (Amritsar)	51.8	IS:9989:1981 R-2002
Regulatory Standards		65 dB (A)	

dB (A) Leq: denotes the time weighted average of the level of sound in decibels on scale (A) which is relatable to human hearing.

****Leq:** It is energy mean of the noise level over the specified period.

Note: Day time shall mean from 6.00a.m. to 10.00 P.M. Night time shall mean from 6.00a.m. to 10.00 P.M.


ANALYST


AUTHORIZED SIGNATORY
(QM & TM)

- NOTE:**
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 2. Report is valid for self-monitoring purposes of the industry only as per environmental protection act 1986.
 3. Sample will be destroyed after one month from the date of issue of test certificate unless otherwise specified.
 4. This report is not to be produced wholly or in part as an evidence in the court of law and should not be used in any advertising media without our special permission in writing.

Air Quality



ISO 9001 : 2008

Industrial Testing Laboratory & Consulting House

(A Govt. Approved Laboratory)

Analysis Report

AMBIENT AIR QUALITY MONITORING REPORT

Test Report No. : ITL/ED/09

Dispatch Date : 26/12/2016

1.	Laboratory Sample No.	ITL/12-16/232/01
2.	Issued to	M/S CONSTRUCTION TECHNIQUE
3.	Name of sample collecting officer	By Lab Representative
4.	Type of sample	Ambient Air Quality Monitoring
5.	Date of sample collection	20/12/2016
6.	Date of sample receipt in lab	21/12/2016 at 10.00 am
7.	Location of sample collection	Town Hall (Amritsar)

Test Results

SN	Parameters	Results	Regulatory Standards (NAAQS)*	Test Method followed
1.	Particulate Matter, (size <10 µm), or PM ₁₀ , µg/m ³	58	100	IS: 5182 (Part-23) 2006, (RA2009)
2.	Particulate Matter, (size <2.5 µm), or PM _{2.5} , µg/m ³	39	60	IS: 5182 (Part-23) 2006, (RA2009)
3.	Sulphur Dioxide, (SO ₂), µg/m ³	07	80	IS: 5182 (Part 2) : 2001, (RA 2012)
4.	Nitrogen Dioxide, (NO ₂), µg/m ³	12	80	IS: 5182 (Part 6) : 2006, (RA 2012)
5.	Carbon Monoxide, (CO), mg/m ³	BDL	2.0	IS: 5182 (Part 10) 1999, (RA 2003)

*NAAQS:-National ambient air quality standards, BDL – Below Detection Limits


ANALYST



AUTHORIZED SIGNATORY

(QM & TM)

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