

## **Environmental Monitoring Report**

Project Number: 40648-034 October 2017

Period: January 2017 - June 2017

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

Submitted by

Project Management Unit, Punjab Heritage and Tourism Board, Chandigarh

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## Asian Development Bank

Infrastructure Development Investment Programme for Tourism (IDIPT) (ADB Assisted Project) Plot No. 03, Sector 38 A, Chandigarh, Ph. 0172-2625952, 5014495 Email:idipt.pb.office@gmail.com



Milesh Kry

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

ASIAN DEVELOPMENT BANK INRM 03:00 RE(

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

Dated: 29/9/17-

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

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

Addl. Project Director

CC:

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



## INFRASTRUCTURE DEVELOPMENT INVESTMENT PROGRAM FOR TOURISM (IDIPT)

Biannual Environment Monitoring Progress Report – Tranche - 3

Bi-annual ending June - 2017



## GOVERNMENT OF PUNJAB Department of Tourism

Jan - Jun 2017

## PROJECT MANAGEMENT UNIT

PUNJAB HERITAGE and TOURISM PROMOTION BOARD Plot No.3, Sector38A, Chandigarh – 160 036 Department of Tourism GOVERNMENT OF PUNJAB



## INFRASTRUCTURE DEVELOPMENT INVESTMENT PROGRAM FOR TOURISM (IDIPT)

### ADB Loan No. 3223-IND

## **BIANNUAL ENVIRONMENT MONITORING PROGRESS REPORT**

Tranche - 3

For

**Bi-Annual Ending June – 2017** 

## **Project Management Unit**

INFRASTRUCTURE DEVELOPMENT INVESTMENT PROGRAMME FOR TOURISM

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



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### **1. INTRODUCTION**

Infrastructure Development Investment Program for Tourism (IDIPT) has been proposed with a view to develop and improve basic urban infrastructure and services in the four participating states of Himachal Pradesh, Punjab, Uttarakhand and Tamil Nadu to support the tourism sector as a key driver or economic growth. It will focus on:

- (i) Strengthening connectivity to and among key tourist destinations;
- (ii) Improving basic urban infrastructure and services, such as water supply, road and public transport, solid waste management and environmental improvement, at existing and emerging tourist destinations to ensure urban amenities and safety for the visitors, and protect nature and culture-based attractions; and
- (iii) Physical infrastructure investments will be accompanied by capacity building programs for concerned sector agencies and local communities for better management of the tourist destinations and for more active participation in the tourism related economic activities, respectively

#### 2. NEED FOR INITIAL ENVIRONMENTAL EXAMINATION (IEE)

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

#### 3. PURPOSE OF ENVIRONMENTAL MONITORING PROGRAM

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

## 4. OBJECTIVES OF CARRYING OUT ENVIRONMENTAL MONITORING PROGRAM

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

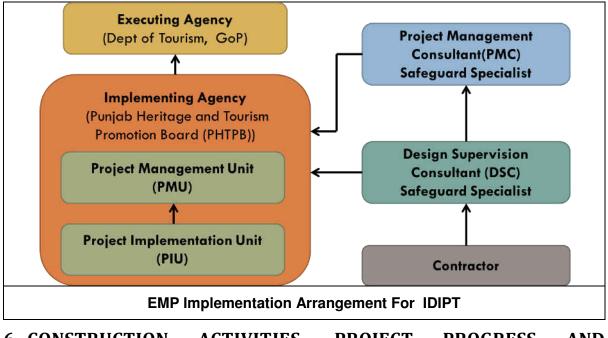
- To provide a database against which short or long term environmental impacts of the sub projects can be determined;
- To provide an early indication, environmental control measures or practices should not fail to achieve the acceptable standards;
- To monitor the performance of the sub projects and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



#### **5. EMP IMPLEMENTATION ARRANGEMENT FOR IDIPT, PUNJAB**

The following agencies will be responsible for EMP implementation:

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



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

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



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

#### a. Implementation status:

S. No.	Sub Project Component/ Packages	Details of work under Package	Commencement of Civil Works	Expected date of Completion	Physical Progress till date	Type of Work presently Conducted	Remarks
1	Package 3- 12/02						
	Lot- 1:Conservati on of Aam Khas Bagh in Fatehgarh Sahib, Patiala	<ul> <li>Vegetation clearance</li> <li>Consolidation and reconstruction of missing brick masonry</li> <li>Stitching of structural cracks/filling</li> <li>Consolidation of lime concrete flooring and demolition of ips flooring</li> <li>Removal dismantling of modular brick in fill</li> <li>Landscaping and site development</li> <li>Cleaning the exposed surface.</li> <li>Plastering the masonry surface with lime plaster.</li> <li>Repairing the terracing (gateways), sloping chajjas (bastions), brick brackets (bastions and enclosure walls)</li> <li>Provision of boundary wall on the eastern, western, and southern edge of the garden complex.</li> <li>Provision of the entrance gate and</li> </ul>	25 July 201 5	24 Jan 2017 (Extende d upto30- June 2017)	40.0 %	<ul> <li>Naughara inner sides plan plaster and stucco work</li> <li>Mehtabi bagh inner side khamira work</li> <li>Octagonal room brick work</li> </ul>	The contractor is advised to expedite the work as the work progress is slow



	<ul> <li>security</li> <li>Adap</li> <li>structur</li> <li>provision</li> <li>interpresent</li> <li>and crassing</li> <li>Maulsa</li> <li>Proviore</li> <li>Maulsa</li> <li>Reconstructure</li> </ul>	on of etation center aft centre at ri ision of tourist on centre at					
Lot-2: Conse n of To and Ra Sharif Fateho Sahib	<ul> <li>Consinent consistent of the state of the sta</li></ul>	ervation and ation of six e buildings ng interior tive ceilings. truction of omplexes and at Dargah at Dargah as guest & site oment works.	30 Oct 201 5	29 Apr 2017 (Extended upto 29 Aug 2017)	82.0 %	<ul> <li>Toilet block inner side wall tile fixing work</li> <li>Sewer pipe laying and manhole construction work</li> <li>Pavers block fixing work</li> <li>Kota stone flooring work</li> </ul>	The contractor is advised to expedite the work as the work progress is slow
Lot- 2:Cons ion of of Raff	Adop servat Tomb udin udin udin udin udin building precinc • Form the mis elemen that for part of design • Cons original and deg feature structur	ting decay nisms in the gs and tt components ing/ making sing damaged tts/ features ms an integral historical erving the built fabric corative s of	30 Oct 201 5	29 Apr 2017 (Extended upto 29 Aug 2017)	44.0 %	<ul> <li>Brick work for planter wall, drain and boundary wall work</li> <li>Outer wall lime plaster work</li> <li>Brick tile around edge work</li> <li>Outer side grave consolidation work &amp; plaster work</li> </ul>	The contractor is advised to expedite the work as the work progress is slow
Lot- 2:Cons ion of of Alfa	tangible servat intangib Tomb the pre	e and ole aspects of cinct scaping Site	30 Oct 201 5	29 Apr 2017 (Extended upto 29 Aug 2017)	46.0 %	<ul> <li>Inner side Consolidation work</li> <li>Repair and brick work at Tomb of Alfsani</li> </ul>	The contractor is advised to expedite the work as the



				<ul> <li>Stair case side wall plaster work</li> <li>Outer wall lime plaster work</li> </ul>	work progress is slow
Lot- 2:Conservat ion of Tomb of Bibi Taj	30 Oct 201 5	29 Apr 2017 (Extended upto 29 Aug 2017)	64.0 %	<ul> <li>Pathway work</li> <li>Terrace Consolidation work</li> <li>Filter media work at Bibi Taj Tomb</li> <li>Limes plaster work</li> <li>Brick tile on edge and stair brick work</li> </ul>	The contractor is advised to expedite the work as the work progress is slow

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

Package No	Subproject Component/Packages	Clearance/ Approval required	Current Status
Package 3-12/02	Lot-1: Conservation of Aam Khas Bagh in Fatehgarh Sahib, Patiala 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	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.
	Other Environmental R		
		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 EIA notification, 2006 (and its	The quantity of the construction materials required for this sub project is very less and it has been sourced from local authorized (licensed) vendors. Not applicable (not in the list of projects, which requires Environmental Clearance)



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

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

Package no	Environmental Safeguard related Loan Covenants	Compliance Status
<ul> <li>Package 3-12/02: Imperial Highway Heritage Conservation and Visitor Facility Development.</li> <li>Lot-1: Conservation of Aam Khas Bagh in Fatehgarh Sahib</li> <li>Lot-2: (i) Conservation of Tombs and Rauza Sharif in Fatehgarh Sahib</li> <li>(ii) Conservation of Tomb of, Raffudin</li> <li>(iii) Conservation of Tomb of Alfasani</li> <li>(iv) Conservation of Tomb of Bibi Taj</li> </ul>	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; The IEEs and EMPs are implemented in accordance with their terms; 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,	All ADB safeguards are being followed. IEE and EMP are being implemented in accordance with the terms of ADB. No unanticipated adverse environmental impact has occurred.



Package no	Environmental Safeguard related Loan Covenants	Compliance Status
	this is reported to ADB, and remedial actions are taken to mitigate the relevant impacts in consultation with the affected persons and ADB;	
	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; The IEEs and EMPs are updated, as necessary, during the course of Project	All the changes are consistent with the eligibility criteria set forth in Schedule 4 to the FFA. The IEE and EMP will be changed as necessary.
	implementation, and submitted to ADB for clearance;	
	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 Reports on the implementation of the IEEs and the EMPs are submitted to ADB on a biannual basis.	Regular environmental monitoring is being performed and the report will be submitted to ADB on bi- annual basis.

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

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

S No	Subproject Selection Criteria	Lot-1 Conservation of Aam Khas Bagh in	Lot – 2.Conservation of Tombs and Rauza	Lot – 2 (i) Conservation of Tomb of Raffudin
		Fatehgarh Sahib	Sharif in Fatehgarh Sahib	<ul> <li>(ii) Conservation of Tomb of Alfasani</li> <li>(iii) Conservation of Tomb of Bibi Taj</li> </ul>
2	Description of proposed improvements	Conservation works including • Vegetation clearance • Consolidation and reconstruction of missing brick masonry • 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> <li>Conservation of Tombs and Rauza Sharif in Fatehgarh Sahib</li> <li>Conservation and Restoration of six heritage buildings</li> <li>Construction of toilet complexes</li> <li>Paving of walkway</li> <li>Provision of internal signage</li> </ul>	<ul> <li>Adopting decay mechanisms in the buildings and precinct components</li> <li>Forming/ making the missing damaged elements/ features that forms an integral part of historical design</li> <li>Conserving the original built fabric and decorative features of structures.</li> <li>Conserving the tangible and intangible aspects of the precinct</li> <li>Landscaping Site Development</li> </ul>
3	Design Criteria	Careful selection of material, the result of interventions is unobtrusive and will be integral part of the overall ambience.	Careful selection of material, the result of interventions is unobtrusive and will be integral part of the overall ambience.	Careful selection of material, the result of interventions is unobtrusive and will be integral part of the overall ambience.
L	L	tatue with EMMD as n		

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.
<ol> <li>Construction work area to be demarcated on ground</li> </ol>	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.
<ol> <li>Excavated earth to be reused in the ongoing project site.</li> </ol>	To the extent possible the excavated earth is reused.	Satisfactory	Excavated earth is being covered and stored properly
7. The contractor to take precaution to reduce the level of dust at construction sites.	Sprinkling of water is being done at regular intervals. Construction material is covered.	Satisfactory	All construction material to be covered properly from all the sides.
8. The waste generated will be reused in construction activities, either as a fill material or based on its suitability of reuse to maximum extent.	As per the mitigation measures, the generated construction waste is being utilized to the extent possible.	Satisfactory (Photographs are attached as <b>Annexure</b> -2).	Continuous monitoring is required
9. All workers employed on mixing asphaltic material, cement, lime mortars, concrete etc., will be provided with protective footwear and protective goggles.	All workers have been provided with PPEs.	Satisfactory	Continuous monitoring is being carried out to ensure all the workers are using PPE's
10.The Contractor will, at his own expense, conform to all anti-malaria instructions given to him by the Engineer	Work being carried out as per plan	Satisfactory	Continuous monitoring is required

## f. Environmental Quality Monitoring

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



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

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

Location	Parameter	Value	Standard value			
(i) Conservation of	PM <sub>10</sub> , μg/m <sup>3</sup>	62.1	100.0			
Tomb of	$PM_{2.5}, \mu g/m^3$	34.9	60.0			
Alfasani	Oxides of Sulphur, µg/m <sup>3</sup>	9.9	80.0			
	Oxides of Nitrogen, µg/m <sup>3</sup>	24.5	80.0			
	Carbon monoxide, mg/m <sup>3</sup>	0.71				
			4.0			
	ΡΜ <sub>10</sub> , μg/m³	64.3				
(ii) Conservation of	$PM_{2.5}, \mu g/m^3$	35.7				
Tomb of Bibi Taj	Oxides of Sulphur, µg/m <sup>3</sup>	8.1				
-	Oxides of Nitrogen, µg/m <sup>3</sup>	28.6				
	Carbon monoxide, mg/m <sup>3</sup>	0.75				
	ΡΜ <sub>10</sub> , μg/m³	62.5				
(iii) Near NavGhar	PM <sub>2.5</sub> , μg/m <sup>3</sup>	29.4				
	Oxides of Sulphur, µg/m <sup>3</sup>	9.2				
	Oxides of Nitrogen, µg/m <sup>3</sup>	20.8				
	Carbon monoxide, mg/m <sup>3</sup>	BDL				
	The observed AAQ values are within the regulatory standards indicating the construction activities does not have any impact on the existing air quality.					

#### g. Grievance Record and Action Taken

Date	Subproject	Problem related to	Received through	Description	Status
	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-TOURISMDEVELOPMENT AT ROPARAND HARIKE WETLANDS (CIVIL WORKS)

#### a. Implementation status

S No	Sub Project Component/ Packages	Details of work under Package	Commencemen t of Civil Works	Expected date of Completion	Physical Progress till	Type of Work presently Conducted	Remarks
1.	Package 4/3: Eco- tourism Developme nt at Ropar and Harike Wetlands (Civil Works)	<ul> <li><u>At Harike Wetland</u></li> <li>Provision of nature trail of about 6.5 km</li> <li>Provision of a short trail of about 600 m ending at notch point.</li> <li>Provision for vehicle parking and reception complex</li> <li>Provision of public amenities</li> <li>Provision of public amenities</li> <li>Provision of internal sign/ information boards of uniform design</li> <li>Upgrading the old building at Churian check post to an interpretation center.</li> <li>Provision of boating facilities</li> <li>Landscaping outside core protected area</li> </ul>	19 Aug 201 5	18 Feb 2017(Ex tended upto 29 <sup>th</sup> Aug 2017)	39.0%	<ul> <li>RMB toilet block partition wall under progress.</li> <li>RMB kitchen &amp;cafeteria joint pipe M.S. work under progress.</li> <li>Noise point observation deck primer work under progress.</li> </ul>	The contractor is advised to expedite the work as the work progress is slow
		<ul> <li><u>At Ropar Wetland</u></li> <li>Provision of bird watch towers and bird hides</li> <li>Provision of nature trail of about 800 m</li> <li>Provision of public amenities</li> <li>Upgrade of existing interpretation center</li> <li>Provision of sign/ information boards of uniform design</li> </ul>			75%	<ul> <li>Column casting &amp; shuttering of board walk work under progress</li> <li>Interpretation center work</li> <li>Landscaping work</li> </ul>	

Provision of parking facilities Ropar Wetland Connectivity• 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)	<ul> <li>Bitumen works.</li> <li>Work of strengthening of shoulder</li> <li>Road works</li> </ul>
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b. Compliance status with Government Environmental Regulations (as indicated in the IEE):

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



Package No	Sub Project	Clearance/	Current Status
Ŭ	Component/Packages	Approval required	
		The Forest Conservation Act, 1980 and its subsequent amendments The Ancient Monuments and Archaeological Sites and Remains Act, 1958, and the rules, 1959	Not applicable, as there are no forest areas located within or in the surroundings of the project site 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 onactivities within Wetlands) of the wetland rules, 2010, this subproject mandates clearance from Chief Wildlife Warden of Punjab and accordingly the same has been obtained (Refer <b>Annexure 4</b> )

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

Package No	Environmental Safeguard related Loan Covenants	Compliance Status
<b>Package 4/3:</b> Eco- tourism Development at Ropar and Harike Wetlands (Civil Works)	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; The IEEs and EMPs are implemented in	All ADB safeguards are being followed. IEE and EMP are being implemented in accordance with
	accordance with their terms ; 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	the terms of ADB. No unanticipated adverse environmental impact has occurred



Package No	Environmental Safeguard related Loan Covenants	Compliance Status
	taken to mitigate the relevant impacts in consultation with the affected persons and ADB; 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; The IEEs and EMPs are updated, as	All the changes are consistent with the eligibility criteria set forth in Schedule 4 to the FFA. The IEE and EMP will be changed as necessary.
	necessary, during the course of Project implementation, and submitted to ADB for clearance;	noocoodry.
	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 Reports on the implementation of the IEEs and the EMPs are submitted to ADB on a biannual basis.	

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

S. No.	Subproject Selection Criteria	<b>Package 4/3:</b> 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	<ul> <li><u>At Harike Wetland</u></li> <li>Provision of nature trail of about 6.5 km</li> <li>Provision of a short trail of about 600 m ending at notch point.</li> <li>Provision for vehicle parking and reception complex</li> <li>Provision of public amenities</li> <li>Provision of internal sign/ information boards of uniform design</li> <li>Upgrading the old building at Churian check post to an interpretation center.</li> <li>Provision of boating facilities</li> <li>Landscaping outside core protected area</li> </ul>
		<ul> <li><u>At Ropar Wetland</u></li> <li>Provision of bird watch towers and bird hides</li> <li>Provision of nature trail of about 800 m</li> <li>Provision of public amenities</li> <li>Upgrade of existing interpretation center</li> </ul>

S. No.	Subproject Selection Criteria	<b>Package 4/3:</b> Eco-tourism Development at Ropar and Harike Wetlands (Civil Works)		
		<ul> <li>Provision of sign/ information boards of uniform design</li> </ul>		
		<ul> <li>Provision of parking facilities at Ropar Wetland Connectivity</li> <li>Strengthening is proposed at 0/00 km to 0/945 km (0.945 km) and 6/115 km to 16/245 (10.13 km)</li> </ul>		
		Widening and strengthening is proposed at 0/945km to 6/115 km (5.17km)		
3.	Design Criteria	Careful selection of material, the result of interventions is unobtrusive and will be integral part of the overall ambience.		

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

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



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

#### f. Environmental Quality Monitoring

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

Location	Value		Standards		
	Day	Night			
Ropar Wetland	55.8 dB	48.7 dB (A)	CPCB noise standard for silent zone is 50 dB		
Harike Wetland	(A)	49.3 dB (A)	(A) for day time and 40 dB (A) for night time.		
	58.5 dB				
	(A)				
The observed values are slightly higher in comparison with the CPCB Noise Quality					
Standard for Silent zone. The Contractor has been advised to adopt management					
measures (including using construction machineries with lower noise emissions; avoiding					
metal on metal impacts and fitting silencers to generators and vehicle exhausts) in order to					
contain the noise	contain the noise levels generated during project construction.				

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

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

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

#### g. Grievance Record and Action Taken

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



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

#### a. Implementation status

S. No.	Sub Project Component/ Packages	Details of work under Package	Commence ment of Civil Works	Expected date of Completion	Physical Progress till date	Type of Work presently Conducted	Remarks
1.	Packag e 5/4: Eco- tourism Develop ment of Wildlife Zoo	<ul> <li>Construction of Thematic Zoo Entrance including Lake Landscaping</li> <li>Construction of modern Interpretation centre</li> <li>Creation of Zoological Education Park</li> <li>Creation/Up- gradation of visitors convenience, shelters and rest areas inside Zoological park</li> <li>Upgradation of primary and secondary travel paths to various zoo attraction</li> <li>Construction of Tourist Facilities centre at the zoo main entrance gate</li> <li>Strengthening of zoo waste disposal system including relaying of the sewer network of the zoo, installation of Sewerage Treatment Plant (STP)</li> <li>Capacity building for tourism development and management</li> </ul>	19 Aug 2015	18 Feb 2017 (Exten ded upto 30 <sup>th</sup> Sep 2017)	47.0%	<ul> <li>Stone pitching work near water body</li> <li>Landscaping work</li> <li>Visitor shelter granite stone fixing work</li> <li>Main gate stone masonry wall work</li> <li>Interpretation center building side platform paver block fixing work</li> <li>Ticket counter &amp; food plaza: false ceiling work</li> </ul>	Contractor is advised to expedite the work progress The STP component was dropped from the package, due to unavailabili ty of funds. The minutes of the meeting reference is given in the <b>Annexure</b> <b>6</b>

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



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

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

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



Package No	Environmental Safeguard related Loan Covenants	Compliance Status
	The IEEs and EMPs are implemented in accordance with their terms ;	IEE and EMP are being implemented in accordance with the terms of ADB.
	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;	No unanticipated adverse environmental impact has occurred All the changes are
	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;	consistent with the eligibility criteria set forth in Schedule 4 to the FFA. The IEE and EMP will be
	The IEEs and EMPs are updated, as necessary, during the course of Project implementation, and submitted to ADB for clearance;	changed as necessary.
	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	Regular environmental monitoring is being
	Reports on the implementation of the IEEs and the EMPs are submitted to ADB on a quarterly basis.	performed and the report will be submitted to ADB on bi-annual basis.

#### 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> <li>Construction of Thematic Zoo Entrance including Lake Landscaping</li> <li>Construction of modern Interpretation centre</li> <li>Creation of Zoological Education Park</li> </ul>



S. No.	Subproject Selection Criteria	Package 5/4: Eco-tourism Development of Wildlife Zoo
		<ul> <li>Creation/Up-gradation of visitors convenience, shelters and rest areas inside Zoological park</li> <li>Upgradation of primary and secondary travel paths to various zoo attraction</li> <li>Construction of Tourist Facilities centre at the zoo main entrance gate</li> <li>Strengthening of zoo waste disposal system including relaying of the sewer network of the zoo, installation of Sewerage Treatment Plant (STP)</li> <li>Capacity building for tourism development and management</li> </ul>
3.	Design Criteria	Steps to minimize the Environmental impacts due to proposed interventions within the zoological park premises.

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

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



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

#### f. Environmental Quality Monitoring

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

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

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

Location	Parameter	Value	Standard
In the vicinity of	PM <sub>10</sub> , μg/m³	82.0	100.0
the	PM <sub>2.5</sub> , μg/m <sup>3</sup>	36.0	80.0
construction	Oxides of Sulphur, µg/m <sup>3</sup>	4.0	80.0
site, at the		8.0	2.0
location	Carbon monoxide,mg/m <sup>3</sup>	Not detected	
advised by the	-		
Environment		The observed AAQ values are	
Specialist of		within the regulatory standards	
the DSC		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		NA	NA	No Grievances have been recorded so far.



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

#### a. Implementation status

S. No.	Sub Project Component/Pack ages	Details of work nuder Package	01 Commencement of Civil Works	Expected date of Completion	<ul><li>99</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90</li><li>90&lt;</li></ul>	D Type of Work presently Conducted	Remarks
	Conservation of Main Gate of Qila Androon, and Art Conservation works with Adaptive Reuse, Landscaping and utility works at Qila Mubarak.	<ul> <li>Conservation of buildings at Qila Mubarak.</li> <li>Conservation works to be done to architectural and decorative details.</li> <li>Adaptive reuse of area between Qila Androon and outer wall for museum.</li> <li>Landscaping and Site Development:         <ul> <li>Landscaping and site development of the inner areas of Qila Mubarak</li> <li>Provision of adequate lighting and internal signages.</li> <li>Provision of visitor facilities and services.</li> </ul> </li> <li>Rerouting the electric cables currently running across the fort</li> <li>Capacity building for tourism development and management.</li> </ul>	Sept 2015	2017 Extended upto 14 <sup>th</sup> Dec 2017		MUBARAK PATIALA JALAU KHANA • South side verandah parapet wall outer plaster finishing, molding work in progress • East side column plaster/stucco finishing work in progress • Jalau Khana Central courtyard G5 Plaster finishing work in progress • Terrace Stair case mumpty wall plastering in progress • F6 internal plastering work in progress. • F6 internal plastering work in progress. • F6 internal plastering work in progress. • F6 internal plastering work in progress. • F6 internal plastering work in progress.	



				1
			plaster work in	
			progress	
			<ul> <li>Androon</li> </ul>	
			entrance area	
			G5A internal	
			plaster	
			finishing work	
			in progress	
			RANG AND	
			SHEESH	
			MAHAL	
			<ul> <li>Sheesh</li> </ul>	
			mahal 1st	
			floor Terrace	
			1 wall stucco	
			plaster	
			finishing work	
			in 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 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 Env	ironmental Regulations		
		Tree cutting permissions	Tree cutting is not envisaged and hence tree cutting permission is not required.
		Sourcing of construction materials (quarry and borrow materials)	The quantity of the construction materials required for this sub project is very less and it has been sourced from local authorized (licensed) vendors.
		The EIA notification, 2006 (and its subsequent amendments)	Not applicable (not in the list of projects, which requires Environmental Clearance)
		Water (Prevention and control of pollution) Act, 1974 and Air (prevention and control of pollution) Act, 1981	Not applicable, since there are no requirement for setting up of hot mix plants, wet mix plants, stone crushers and diesel generators.
		The Wildlife Protection Act,	Not applicable, as there are no wildlife protected areas located within or in the



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

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

Package no.	Environmental Safeguard related Loan Covenants	Compliance Status
Package 6/5: Patiala Heritage Conservation and Tourism Development Project (Qila Mubarak)	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.
	The IEEs and EMPs are implemented in accordance with their terms; 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; Any changes to the location, land alignment, or environmental	IEE and EMP are being implemented in accordance with the terms of ADB. No unanticipated adverse environmental impact has occurred
	impacts on account of detailed designs of the Project facilities are mutually agreed between the Borrower and ADB, and are consistent with the eligibility	eligibility criteria set forth in Schedule 4 to the FFA.



Package no.	Environmental Safeguard related Loan Covenants	Compliance Status
	criteria set forth in Schedule 4 to the FFA;	The IEE and EMP will
	The IEEs and EMPs are updated, as necessary, during the course of Project implementation and submitted to ADB for clearance;	be changed as necessary.
	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	Regular environmental monitoring is being performed and the report will be submitted
	Reports on the implementation of the IEEs and the EMPs are submitted to ADB on a biannual basis.	to ADB on bi-annual basis.

## 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> <li>Conservation and restoration of buildings at Qila Mubarak.</li> <li>Conservation works to be done to architectural and decorative details.</li> <li>Adaptive reuse of area between Qila Androon and outer wall for museum.</li> <li>Landscaping and Site Development: <ul> <li>Landscaping and site development of the inner areas of Qila Mubarak</li> <li>Provision of adequate lighting and internal signage's.</li> <li>Provision of visitor facilities and services.</li> </ul> </li> <li>Rerouting the electric cables currently running across the fort Capacity building for tourism development and management.</li> </ul>
3.	Design Criteria	Steps to minimize the environmental impacts due to proposed conservation measures at Qila Mubarak.

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

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



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

#### f. Environmental Quality Monitoring

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



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

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

Location	Parameter	Value	Standard
In the vicinity	PM <sub>10</sub> ,μg/m³	77.0	100.0
of the	PM <sub>2.5</sub> , μg/m <sup>3</sup>	55.0	60.0
construction	Oxides of Sulphur, µg/m <sup>3</sup>	10.0	80.0
site, at the	Oxides of Nitrogen, µg/m <sup>3</sup>	17.0	80.0
location	Carbon monoxide, mg/m <sup>3</sup>	Not detected	2.0
advised by			
the		The observed AAQ values are	
Environment		within the regulatory standards	
Specialist of		indicating the construction	
the DSC		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/Pa ckages	Details of work under Package	Commenceme nt of Civil Works		Physical Progress till date	Type of Work presently Conducted	Remarks
1	Package 7/7: Establishme nt of Tourism Facilities and Infrastructur e showcasing of Sikh Culture, Chamkaur Sahib(Civil Works)	<ul> <li>Construction of TRC (Tourist Reception Centre)</li> <li>Provision of garden lighting and high mast lighting.</li> <li>Construction of the main entrance gate</li> <li>Provision of visitor facilities like toilets, drinking water facilities etc.</li> <li>Fitting and fixtures</li> <li>Display materials</li> <li>Provision Services such as electrical, plumbing, HVAC etc</li> </ul>	08 June 2015	06 Dec 2016 (Exte nded upto 30 <sup>th</sup> June, 2017)	35.0%	<ul> <li>Dome staging and shuttering work under progress of display hall no 3rd.</li> <li>Kiosk flooring work under progress.</li> <li>Flooring work under progress in open air theatre.</li> <li>Kerb fixing of pathway work under progress.</li> <li>Car parking PCC work under progress.</li> </ul>	Instructi on has been given to the contract or 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 showcasing of Sikh Culture, Chamkaur Sahib (Civil Works)	<ul> <li>Construction of TRC (Tourist Reception Centre)</li> <li>Provision of garden lighting and high mast lighting.</li> <li>Construction of the main entrance gate</li> <li>Provision of visitor facilities like toilets, drinking water facilities etc</li> </ul>	Disposal plan for extraneous material is required	Disposal of extraneous material is as per the plan.



Package No	Sub Project	Clearance/	Current Status
_	Component/Packages	Approval required	
	<ul> <li>Fitting and fixtures</li> <li>Display materials</li> <li>Provision of services such as electrical, plumbing, HVAC etc.</li> </ul>		
Other Environ	mental Regulations		
	3	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	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. IEE and EMP are being implemented in
(Civil Works)	The IEEs and EMPs are implemented in accordance with their terms ;	accordance with the terms of ADB.
	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	No unanticipated adverse environmental impact has occurred.
	ADB; 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;	All the changes are consistent with the eligibility criteria set forth in Schedule 4 to the FFA. The IEE and EMP will be
	The IEEs and EMPs are updated, as necessary, during the course of Project implementation, and submitted to ADB for clearance;	changed as necessary.
	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	Regular environmental monitoring is being performed and the report
	Reports on the implementation of the IEEs and the EMPs are submitted to ADB on a biannual basis.	will be submitted to ADB on bi-annual basis.

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

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



S No	Subproject Selection Criteria	<b>Package 7/7:</b> Establishment of Tourism Facilities and Infrastructure showcasing of Sikh Culture, Chamkaur Sahib (Civil Works)		
		which were converted into urban use for many years ago, and there is no natural habitat left at these sites. The sites are not within or adjacent to any protected areas		
2	Description of proposed improvements	<ul> <li>Construction of TRC (Tourist Reception Centre)</li> <li>Provision of garden lighting and high mast lighting.</li> <li>Construction of the main entrance gate</li> <li>Provision of visitor facilities like toilets, drinking water facilities etc</li> <li>Fitting and fixtures</li> <li>Display materials</li> <li>Provision Services such as electrical, plumbing, HVAC etc</li> </ul>		
3	Design Criteria	<b>Civil structure</b> (parking and TRC centre inclusive of ramps, staircases and toilets). <b>Landscape</b> – Hardscape –Pavement, signage, lighting, bollards, chain barriers; Softscape – plant material <b>Infrastructure</b> – water supply, sewerage, firefighting, storm water, electrical, dustbins and drinking water facility.		

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

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



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

f. Environmental Quality Monitoring

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

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

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

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

#### g. Grievance Record and Action Taken

Date	Subproject	Problem	Received	Description	Status
		related to	through		



Package 7/7: Establishment of Tourism Facilities and Infrastructure showcasing of	None	NA	NA	No Grievances have been
Sikh Culture, Chamkaur Sahib (Civil Works)				recorded so far.



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

	a. Implementation status: b. Compliance status with Government Environmental Regulations:							
S. No.	Sub Project Component/ Packages	Details of work under Package	Commence ment of Civil Works	Expected date of Completion	Physical Progress till date	Type of Work presently	Conducted	Remarks
1	Lot 1 - Conservatio n at Gobindgarh Fort Structures	Conservation and structural stabilization of the fort walls, bastions and moat	08 Feb 2016	07 Aug 2017	19.0%	Disma floor und progress	der	Work progress is very slow due to less deployment of labour
2	Lot 2 - Conservatio n at Gobindgarh Fort Structures	Conservation and structural stabilization of the fort walls, bastions and moat	10 Nov 2015	27 Jan 2017 (exten ded upto 26 <sup>th</sup> July 2017)	55.0%	<ul> <li>progress</li> <li>Remove arth in</li> <li>Pitchin progress</li> <li>Moat A inner was progress</li> <li>Inner F flooring laying</li> <li>Adjoin</li> </ul>	val of extra progress ng wall is in s Area outer/ Il plaster in s Rampart in brick	Instruction has been given to the contractor to expedite the work.
	Package No	Sub Component/P	Project			pproval		atus
	Package 8/9: Structures Conservation	of the fort bastions and m	and bilization walls, noat	required Disposa extraned required	l pla pus ma l	n for terial is		extraneous as per the
	at Gobindgarh	Other Environ	mental R		<b>ns</b> notificat	ion	Not applica	able (not in
	Fort			2006 (al subsequ amendn	nd its Jent			of projects, requires
					tting perr		envisaged tree cutting is not requi	
				is not required.Sourcing of construction materials (quarry and borrow materials)The quantity construction m required for th project is very le it has been s		n materials or this sub		



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

## c. Compliance status with Loan Covenant:

Package No	Environmental Safeguard related Loan Covenants	Compliance Status
Package 8/9: Structures Conservation at Gobindgarh Fort	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.
	The IEEs and EMPs are implemented in accordance with their terms ;	implemented in accordance with the terms of ADB.
	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	No unanticipated adverse environmental impact has occurred.
	ADB; Any changes in the location, land alignment, or environmental impacts on account of detailed designs of the Project	All the changes are consistent with the eligibility criteria set forth in Schedule 4 to the FFA.



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

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

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

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

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



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

## f. Environmental Quality Monitoring

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

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

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

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

Location	Parameter	Value St	andard
		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	Receive d through	Descriptio n	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.	Sub Project Component/Pack ages	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> <li>Upgradation and strengthening of the exiting road</li> <li>Upgradation/ Relaying of PCC at certain stretches</li> <li>Provision of 1 m wide berm (Brick on edge) on both sides</li> <li>Provision of storm water drainage system, along both sides of road</li> <li>Upgradation of culverts.</li> <li>Widening of minor bridges</li> <li>Provision of adequate footpaths</li> </ul>	22 May 2015	21 Nov 2016 (Extende d upto 30 <sup>th</sup> June, 2017). The contractor has applied for further extension upto 30 <sup>th</sup> Sep 2017	75%	<ul> <li>Approach road works to Ram Tirath is in progress</li> </ul>	Contractor is instructed to expedite the work

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

Package No	Sub Project Component/Packages	Clearance/ Approval required	Current Status
Package 10/14: Last mile Connectivity to Cultural Sites in Western Circuit	<ul> <li>Upgradation and strengthening of the exiting road</li> </ul>	Disposal plan for extraneous material is required.	Disposal of extraneous material is as per the plan.
	<ul> <li>Upgradation/ Relaying of PCC at certain stretches</li> <li>Provision of 1 m wide berm (Brick on edge) on both sides</li> <li>Provision of storm water drainage system, along both sides of road</li> <li>Upgradation of culverts.</li> <li>Widening of minor bridges</li> </ul>	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



Package No	Sub Project Component/Packages	Clearance/ Approval required	Current Status
	<ul> <li>Provision of adequate footpaths</li> </ul>		been sourced from local authorized (licensed)vendors
		The EIA notification, 2006 (and its subsequent amendments)	Not applicable (not in the list of projects, which requires Environmental Clearance)
		Water (Prevention and control of pollution) Act, 1974 and Air (prevention and control of pollution) Act, 1981	Not applicable, since there are no requirement for setting up of hot mix plants, wet mix plants, stone crushers and diesel generators.
		The Wildlife Protection Act, 1972, amended in 2003 and 2006	Not applicable, as there are no ecological sensitive areas located within or in the surroundings of the subproject site
		The Forest Conservation Act, 1980 and its subsequent amendments	Not applicable, as there are no forest areas located within or in the surroundings of the project site
		The Ancient Monuments and Archaeological Sites and Remains Act, 1958, and the rules,	Not applicable, as there are no monuments located within or in the vicinity of the
	anoo status with Loon Covor	1959	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	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; The IEEs and EMPs are implemented in accordance with their terms ;	All ADB safeguards are being followed. IEE and EMP are being implemented in accordance with the terms of ADB.

Package no.	Safeguard related Loan Covenants	Compliance Status
	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;	No unanticipated adverse environmental impact has occurred
	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;	All the changes are consistent with the eligibility criteria set forth in Schedule 4 to the FFA.
	The IEEs and EMPs are updated, as necessary, during the course of Project implementation, and submitted to ADB for clearance;	The IEE and EMP will be changed as necessary.
	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	Regular environmental monitoring is being performed and report is being submitted to ADB
	Reports on the implementation of the IEEs and the EMPs are submitted to ADB on a biannual basis.	on biannual basis.

## 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> <li>Upgradation and strengthening of the exiting road</li> <li>Upgradation/ Relaying of PCC at certain stretches</li> <li>Provision of 1 m wide berm (Brick on edge) on both sides</li> <li>Provision of storm water drainage system, along both sides of road</li> <li>Upgradation of culverts.</li> <li>Widening of minor bridges</li> <li>Provision of adequate footpaths</li> </ul>



S.	Subproject	Package 10/14: Last mile Connectivity to Cultural Sites in		
No.	Selection Criteria	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.		
		with EMMD as you IEE/EMD for somewate Deales were		

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

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



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

#### f. Environmental Quality Monitoring

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

#### g. Grievance Record and Action Taken

Date	Subproject	Problem related to	Received through	Description	Status
	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	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 • 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 (Extended upto 23 <sup>rd</sup> July 2017)	30.0%	<ul> <li>Scrapping of old paint</li> <li>Ceiling paint&amp; Flooring work</li> <li>Consolidation of brick work&amp; Façade work</li> <li>G.I sheet for roof</li> <li>Chajja projection work</li> <li>Stucco work, Toilet plumbing and khamira wash work</li> </ul>	Manpower deployed is very less as compared to completion schedule.

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

Package No	Sub Project	Clearance/ Approval	Current Status
Ū	Component/Packages	required	
Package 13/20: Conservation and adaptive	includes	Disposal plan for extraneous material is required.	Disposal of extraneous material is as per the plan.
reuse of colonial heritage in Kapurthala - Darbar Hall	<ul> <li>Removal of vegetation, repair works</li> <li>Reconstruction of fallen roofs</li> <li>Re-plastering the building.</li> <li>Provision of Services such as Electrical, Plumbing, Firefighting, HVAC etc.</li> </ul>	Other Environmental Re Tree cutting permissions Sourcing of construction materials (quarry and borrow materials)	Tree cutting is not envisaged and hence tree cutting permission is not required. The quantity of the construction materials required for this sub project is very less and it has been sourced from local authorized (licensed) vendors



Package No	Sub Project	Clearance/ Approval	Current Status
	Component/Packages	required 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 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.
	The IEEs and EMPs are implemented in accordance with their terms; In the event that any	IEE and EMP are being implemented in accordance with the terms of ADB.
	unanticipated adverse environmental impact occurs or a mitigation measure under an IEE or EMP does not have the	No unanticipated adverse environmental impact has occurred.



Package no	Environmental Safeguard related Loan Covenants	Compliance Status
	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;	
	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;	All the changes are consistent with the eligibility criteria set forth in Schedule 4 to the FFA.
	The IEEs and EMPs are updated, as necessary, during the course of Project implementation, and submitted to ADB for clearance;	The IEEs and EMPs will be changed as necessary.
	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	
	Reports on the implementation of the IEEs and the EMPs are submitted to ADB on a biannual basis.	Regular environmental monitoring is being performed and report is being submitted to ADB on biannual basis.

## d. Compliance status with Subproject Selection Criteria:

S. No.	Subproject Selection Criteria	<b>Package 13/20</b> : 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> <li>Removal of vegetation, repair works</li> <li>Reconstruction of fallen roofs</li> <li>Re-plastering the building.</li> <li>Provision of Services such as Electrical, Plumbing, Firefighting, HVAC etc</li> </ul>
3.	Design Criteria	Steps to minimize the environmental impacts due to proposed interventions in Darbar Hall.



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

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
1. Efficient drainage of site	Work being carried out as per plan	Satisfactory	Continuous monitoring is required.
2. Exposed steel and concrete structures to be avoided.	Designs proposed are in accordance to architectural character of place.	Satisfactory	Exposed steel and concrete are barricaded to avoid any safety hazard.
3. Construction work area to be demarcated on ground	Construction work area is being barricaded and separated from labour camps	Satisfactory	Continuous monitoring is required.
4. Consideration to be given for material storage at construction sites.	Adequate space allotted for material storage	Satisfactory	All reusable construction material like bricks to be stacked and covered. All loose material will be covered from all the sides.
5. Safe disposal of extraneous wastes to be ensured in the pre- identified disposal locations.	at sites is properly disposed.	Satisfactory	Continuous monitoring is required.
6. The contractor to take precaution to reduce the level of dust at construction sites.	Sprinkling of water and covering of loose construction material is being taken up	Satisfactory	Continuous monitoring is required.
7. The waste generated will be reused in construction activities, either as a fill material or based on its suitability of reuse to maximum extent.	As per the mitigation measures the construction waste are utilised to the extent possible	Satisfactory	Continuous monitoring is required.
8. All workers employed on mixing asphaltic material, cement, lime mortars, concrete etc., will be provided with protective footwear and protective goggles.	Work being carried out as per plan	Satisfactory (Photographs are attached as <b>Annexure</b> -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 enclosed in the Annexure - 13)

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

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

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

## g. Grievance Record and Action Taken

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



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

## a. Implementation status

S. No.	Sub Project Component/ Packages	Details of work under Package	Commence ment of Civil	Expected date of	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	<ul> <li>Consolidation of walls, repairs, restoration</li> </ul>	15 Feb 2016	14 Aug 2017	48.0%	<ul> <li>Remedial measure of Verandah in progress</li> <li>MCA Building works</li> <li>Dismantling work in progress</li> <li>Toilet block work in progress</li> </ul>	Structural engineer is arranged to check the structural stability

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

Package No	Sub Project	Clearance/	Current Status
	Component/Packages	Approval required	
Package T- 3/9/11: Conservation Works at Town Hall, Ram Bagh and Historic Buildings along	<ul> <li>Conservation Works at Town Hall -</li> <li>Consolidation of walls, repairs, restoration</li> <li>Conservation of doors and windows.</li> <li>Preservation of areas with historic</li> </ul>	Disposal plan for extraneous material is required. Other Environmental Tree cutting permissions	Disposal of extraneous material is as per the plan. <b>Regulations</b> Tree cutting is not envisaged and hence tree cutting permission is not required.
Heritage Walk in Amritsar - Conservation Works at Town Hall	significance	Sourcing of construction materials (quarry and borrow materials) The EIA notification, 2006 (and its	The quantity of the construction materials required for this sub project is very less and it has been sourced from local authorized (licensed) vendors Not applicable (not in the list of projects, which



Package No	Sub Project	Clearance/	Current Status
	Component/Packages	Approval required	
		subsequent amendments)	requires Environmental Clearance)
		Water (Prevention and control of pollution) Act, 1974 and Air (prevention and control of pollution) Act, 1981 The Wildlife Protection Act, 1972, amended in 2003 and 2006	Not applicable, since there are no requirement for setting up of hot mix plants, wet mix plants, stone crushers and diesel generators. 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 The Ancient Monuments and Archaeological Sites and Remains Act, 1958, and the rules, 1959	Not applicable, as there are no forest areas located within or in the surroundings of the project site 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	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.
	The IEEs and EMPs are implemented in accordance with their terms; 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	IEE and EMP are being implemented in accordance with the terms of ADB. No unanticipated adverse environmental impact has occurred.



Package no	Environmental Safeguard related Loan Covenants	Compliance Status
	with the affected persons and ADB;	
	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; The IEEs and EMPs are updated, as necessary, during the course of	All the changes are consistent with the eligibility criteria set forth in Schedule 4 to the FFA. The IEEs and EMPs will be changed as necessary.
	Project implementation, and submitted to ADB for clearance;	
	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	
	Reports on the implementation of the IEEs and the EMPs are submitted to ADB on a biannual basis.	Regular environmental monitoring is being performed and report is being submitted to ADB on biannual basis.

## d. Compliance status with Subproject Selection Criteria:

S. No.	Subproject Selection Criteria	<b>Package T-3/9/11:</b> Conservation Works at Town Hall, Ram Bagh and Historic Buildings along Heritage Walk in Amritsar - Conservation Works at Town Hall		
1.	Site Description	The subproject is within the area available in the Town Hall.		
2.	Description of proposed improvements	<ul> <li>Conservation Works at Town Hall</li> <li>Consolidation of walls, repairs, and restoration</li> <li>Conservation of doors and windows; and</li> <li>Preservation of areas with historic significance</li> </ul>		
3.	Design Criteria	Steps to minimize the environmental impacts due to proposed interventions in Town Hall.		

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

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



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

## f. Environmental Quality Monitoring

Noise (Analysis results enclosed in the Annexure - 14)

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

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

Location	Parameter	Value	Standard
In the vicinity of the	PM <sub>10</sub> ,µg/m <sup>3</sup>	89.0	100.0
construction site, at	PM <sub>2.5</sub> , μg/m <sup>3</sup>	51.0	60.0
the location advised	Oxides of Sulphur, μg/m <sup>3</sup>	8.9	80.0
by the Environment	Oxides of Nitrogen,	19.2	80.0
Specialist of the DSC	μg/m <sup>3</sup>	Not detected	2.0
	Carbon monoxide mg/m <sup>3</sup>		
		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 in cluding Conservation of Boundary wall and Providing Wisits focilities at arts and crofts centre (man art) is executed by PHTPB of the Tourism Department (Punjab) as per the guide lines of Govt. of India and ADB loan funded projects under IDIPT at ... Aam. Khas. Bagh Drill Fatelagersh Sahib Punjab. (details of land/area/ building) ) ..... mas -Place: Changijarh Signature ..... Department /owner Date: 28/9/14 Director, Affairs Archaeolo meso Counter Signed ) eputy Commissioner Forthe Sahib (Official Stamp)

#### CERTIFICATE AND UNDERTAKING

)

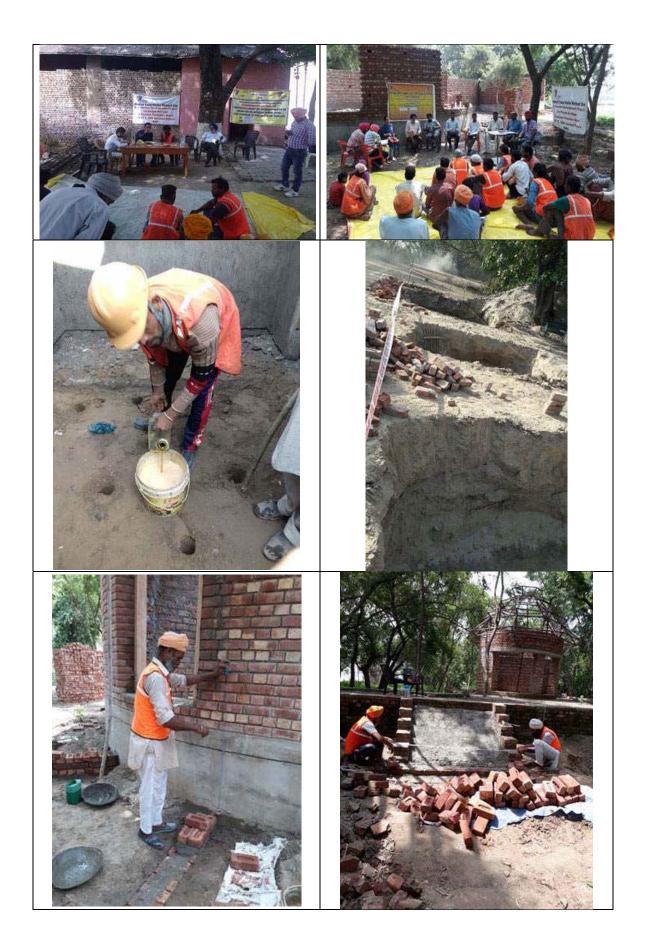
)

(10)

It is certified that: -Fatchagash Sahib 1. The Aam khas K the Management and seuse plan of Aam Ichas Ragh in chiding Conservation of (name of the project) Boundary wall and Providing Uniters facilities at asts 2 Chaff - Centre (Mauls project is proposed, for execution by PHTPB of the Tourism Department (Punjab), is under the ownership of Disectorali of cultural Affairs, Archaeology and Museums and is under the possession of Directo Sale (Details of possessor) Messeums 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 Directo hale of Cultural Affaus, (Name of the department/organization Aschaeology and Meseums, Runjab. Signature MB-6 Place: Chandigarh Date: 23 8/14 Department/Organisation/Owner (Official Stamp) Director. Cultral Affairs Archaeology & Museums, Punjab, Chandigarh Counter Signed Comindisin Facultynch Subib

## Annexure – 2





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 Developme	3-12/02 - Imperial Highway Her	itage Conse	rvation and $V$	isitor Facility		
	Noise Quality Monit	oring (Tom	b of Alfasan	i )		
CP	CHANDIGARH POLLUTION TESTING LABORATORY (Environmental Monitoring, EIA, NOC, ETP, STP) Website : www.cptl.co.in c. 15-A, Chandigarh-160 015 2 : 0172-4669295 nase-VII, Indl. Area, Mohali - 160055 2 : 0172-509031	2; e-mail : sital_cptin	50	JAS-ANZ PEGISTERED ECOLOLIAS PEGISTERED EFActed BE Constant, NOF & CC & PEG records Still 1228, SO 1400:025 and 0855 tec:200 anthe Marking ptiel 126@gmail.com, lab@cptil.co.in		
		ERTIFICATE		PODTING DATE: 00 03 2017		
REPOI NAME	RT NO: IH/2017/03/02 (N) OF INDUSTRY: M/s, IMPERIAL HIG & VISITOR FACILIT CONSERVATION OF IN FATEHGARH SAI SAMPLE	TOMBS & RA	AGE CONSER MENT LOT NO UZA SHARIF,	PORTING DATE: 08.03.2017 VATION, D. – II,		
Samplin	ng Plan Ref. No: CPTL/N	M/08 Typ	e of Sample:	Air Quality w.r.t Noïse		
	Monitoring: 03-03-	2017 San	npling Location:	Surrounding of Alfsani Tomb		
Sample	Identification No: CPTL/SPL/PB/2017/03/04					
Nature	of Sample: Noise I	.evel Mo	nitoring Done By:	Chirag Jamwal		
			mark	Test Method		
<u>S. No.</u>	Location (Silence Zone)		n dB(A) rage	Test Wiethou		
	[Shence Zone]	Day Time	Night Time			
01.	Surrounding of Alfsani Tomb	(1 Hour) 43.1	(1 Hour) 35.6	CPCB/OSHA		
01.			40	**)		
-	Prescribed Standard	50	40			
	-Butto			Ann		
(Chem Date:	ist In-Charge) CC(CC(CO(DOIA) The results are related to test items only. This certificate is not to be reproduced wholly or in	part and cannot be u		(Authorized Sign.) Date:		
	Sample will be destroyed after retention time unless					

o : E-126	TESTING LABI (Environmental Monitoring, EIA Website : www.cpt 2, Sec. 15-A, Chandigarh-160 015	. NOC, ETP, S1 tl.co.in 0172-4669295 155 🕿 : 0172-50	90312; e-mail : sital_cptImohali@ya	ASSETTION AND A CONTRACT OF A COLOR OF A COL
	CONSE	PERIAL HI TOR FACIL ERVATION TEHGARH S	ITIES, DEVELOPMENT OF TOMBS & RAUZA SH GAHIB (PB.)	LOT NO II,
		SAMPI	<u>E PARTICULARS</u>	
Perio Date Samp	oling Plan Ref. No.: of Sampling.: of Sample Collection.: ple Identification No.: CPTL/SF re of Sample:	04-0: PL/PB/2017/03 Ambie	-2017 Location of Sam 3-2017 Environmental C	onditions: Clear Sky 1: 04-03-2017 to 08-03-201
1.	Location of sampling station		Surrounding of Alfsani Tomb	8
2.	Instrument used for sampling		RDS & FPS	
3.	Flow rate of sampling for PM10		1.14 m <sup>3</sup> /min	
			Control of	
4.	Flow rate of sampling for PM25		1.0 m <sup>3</sup> /hour	
5.	Flow rate of sampling for Gases		1.0 LPM	
	Time period for sampling		480 minutes	
6.				
6.	PARAMETERS	RESULTS	PRESCRIBED STANDARD AS PER NOTIFICATION.	TEST METHOD
P		1	18 <sup>TH</sup> NOVEMBER, 2009	
<u>P</u> Pa	articulate Matter (PM10), μg/m <sup>3</sup>	62.1	18 <sup>TH</sup> NOVEMBER, 2009 100	IS 5182 (P-23): 2006, (RA - 2012)
Pa Pa Pa	articulate Matter (PM <sub>10</sub> ), μg/m <sup>3</sup> articulate Matter (PM <sub>2.3</sub> ), μg/m <sup>3</sup>	34.9	18 <sup>10</sup> NOVEMBER, 2009 100 60	SP 61 Issue Date-04-08-2012
Pa Pa Pa St	articulate Matter (PM10), μg/m <sup>3</sup>	and share the second second	18 <sup>TH</sup> NOVEMBER, 2009 100	

	Noise Quali	ty Monitoring (	Fomb of Bibi Taj)	
	CHANDIGARH POLI TESTING LABOR (Environmental Monitoring, EIA, NO Website : www.cptl.co. Sec. 15-A, Chandigarh-160 015 \$ :017 Phase-VII, Indl. Area, Mohali - 160055 \$	ATORY C. ETP. STP) .in 2-4669295	60	PRECIDENTERED MAATUSTUM BET accordinal EA consultant, MoEF & CC & PPCB recognized, NOT: 5208, 50 1401:201 and 04545 1001:2017 antified laboratory
		TEST CERTIFIC	CATE	
	CONSERV	R FACILITIES, DEV	HERITAGE CONSER /ELOPMENT LOT NO & RAUZA SHARIF,	
Date of Sample	ng Plan Ref. No: Monitoring: Identification No: CPTL/SPL/PE of Sample:	CPTL/NM/08 03-03-2017	Type of Sample: Sampling Location: Environmental Condit Monitoring Done By:	Air Quality w.r.t Noise Surrounding of Bibi Taj ions: Clear Sky Chirag Jamwal
<u>S. No.</u>	Location (Silence Zone)		e in dB(A) werage Night Time	Test Method
01.	Surrounding of Bibi Taj	(1 Hour) 44.6	(1 Hour ) 35.9	CPCB/OSHA
	Prescribed Standard	50	40	**
	1 I I I I I I I I I I I I I I I I I I I			
(Chemis Date:	Lutto in-Charge) S(03(2017)	v	2	(Authorized Sign.) Date: Stal Singh CEO
:	The results are related to test items only This certificate is not to be reproduced Sample will be destroyed after retention	wholly or in part and cannot	nt be used its evidence in the co cified.	Chandigath Pollution Testing Lab ourt of law.

	Air Qu	ality Moni	toring (Tomb of Bibi	Taz)
#372 E-12	CHANDIGARH PO TESTING LABO (Environmental Monitoring, EIA, Website : www.cpti 2, Sec. 15-A, Chandigsrh-160 015 ° : 6, Phase-VII, Indl. Area, Mohali - 16000	NOC, ETP. STP .co.in 0172-4669295	<b>Y</b>	JAS-ANZ JAS-ANZ JAS-ANZ JAS-ANZ JAS-ANZ JAS-ANZ MAID2100 MA
		TEST	CERTIFICATE	
	CONSE	FOR FACIL RVATION ( EHGARH S	ITIES, DEVELOPMENT I OF TOMBS & RAUZA SH AHIB (PB.)	.OT NO. – II,
Perio Date Sam	pling Plan Ref. No.: od of Sampling.: e of Sample Collection.: ple Identification No.: CPTL/SI tre of Sample:	CPTL/AA 03-03 04-03 PL/PB/2017/03 Ambio	-2017 Location of Samp -2017 Environmental Co /01(A) Analysis Duration ent Air Sample Collected	enditions: Clear S : 04-03-2017 to 08-03-201
1.	Location of sampling station	TI	ECHNICAL DATA Surrounding of Bibi Taj Tom	1
2.	Instrument used for sampling	-	RDS & FPS	*
3.	Flow rate of sampling for PM10		1.13 m <sup>3</sup> /min	
4.	Flow rate of sampling for PM23		1.0 m <sup>3</sup> /hour	
5.	Flow rate of sampling for Gases		1.0 LPM	
6.	Time period for sampling		480 minutes	
	PARAMETERS	RESULTS	PRESCRIBED STANDARD AS PER NOTIFICATION. 18 <sup>70</sup> NOVEMBER, 2009	TEST METHOD
	Particulate Matter (PM10), µg/m3	64.3	100	IS 5182 (P-23): 2006, (RA - 2012)
	Particulate Matter (PM25), µg/m3	. 35.7	60	SP 61 Issue Date-04-08-2012
	Sulphur dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup> Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	8.1	80	IS 5182 (P-2): 2001, (RA - 2012)
	Carbon monoxide (CO), mg/m <sup>3</sup>	28.6	80	IS 5182 (P-6): 2006, (RA - 2012) IS 5182 (P-10):1999, (RA - 2009)

1	Plat No.	62, 1st Floor, JUP	Certi	ficate No. T-	Airpot Riga	d, 5.A.	5. Nagar (Mohali) Pb Ngyahou.com	
IL .	Ŧ	62, 1et Floor, JUPI ele : 9463000081.	Mab. 94172	-10081, Email	EUNADURE	AHAMAA	Dated :	
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Name	ofSite			Aam Khas Bag	h.Fatehgarh	Salith	(94)	
		d for Monitoring		Noise Level Me				
SR. NO.	1.00	ATION/AREA		ULTS	LIMITS IN TEST METHOD BB(A) LEQ.		TEST METHOD	
4.	i Near Nav Ghar A		Day Time	52 dB (A)	SS dB (A	1	19,9989-1981	
			Night Time	40 dB (A)	45 dB (A	-	ReadY.2001	
2	Near Ob	d Hotel Area	Day Time	53 dB (A)	55 dB (A		15-9989-1981	12
			Night Time	39 dff (A)	45 48 (7		Reall:2001	
X	Near Me	htabi Bagh Area	Day Time Night Time	51 dB (A) 40 dB (A)	55 dB (/		15:49999-1981 Reaff:2001	
Note:	All Paran	neters are within	and the second sec	and the second second	bed by the CPCB Guidelines -			
teT	his repair		ed as evidence				ed in part or full in an	
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	Air Qua	lity Monit	oring (Near N	lav Gh	ar)
>				Serv	Ca Tax No. BPEP59693PSDC PAN No. BPEP596
Plot	ENVIRO No. 62, 1st Floor, JLPL Tele : 9463000081,	(NABL AC Certific Industrial Are	H LABOI CREDITED LA tate No. T-1947 a, Sector 82, Airpot 0081, Email : enviro	B.) Road, S.A	.5. Nagar (Mohali) Pb.
F		TILT	REPORT		Dated : 10/05/
Const. of In & Visitor I Lot No.1 C	tana Constructios Pvt. Lin aperial Highway Heritago acility Development. mnervation Aam Khas Ba Sahib (Pb)	d. • Conservation			
Report Da	te 1: 10.05.2017	Hene	rt No.	I ETL/	26/2017-18/284
Your Ref.N	and the second se		of Sample	: Amb	ient Air Sample
Sample LD	Wind to Decord and the second se	/251 Date Date	of Sampling of Sample Receipt of test	: 03.0	5.2017 to 03.05.2017 5.2017 5.2017 to 10.03.2017
1.0.0		TECH	ICAL DATA		
1 Na	me of Site		Aam Khas Bay	h,Fatchga	rh Sahib (Pb)
2 La	ation of Sampling Station		Near Nav Gho		
the second se	tryment Used for Samplin	14	Respirable Do Ambient Air	u Sampler	
	irce of Sampling	and the second se	38.0	2011	
and the second s	nperature of Sampling Lo vironmental Condition	Carlon	Maxtemp. 42	C	and the second
0 00	ALDIMITULAL CONTRACTOR		Min temp 36	0	
and the			Clear sky and	wood dires	tion west to east
7 Flo	w Rate of Sampling	A. Saute	1.0 LPM	10 10	
	ne Period for Sampling	1912 1	1440 Minutie 1.44 m <sup>3</sup>		
9 Vol	ume of Air Sampled		1.444.00	A PICE	
	North Transmission	Read Line	RESULTS		
17 10 10 1	PARAMETER	RESULT	STANDARI		TEST METHOD
SNO	(µg/m*)	11	(ug/m <sup>3</sup> )	10.0	182[Pt-23]/2006
1	PMm	62.5	100.0	1550	extmetric method and
2	PMIS	.29.4		CP	CB Guidelines
	SO	9.2	80,0	12	5182(Pt-2) 2001 5182(Pt-6) 2006
3	NO.	20,8	0.08		Un Guidelines-2010
5		ND	2.0 mg/m	uidelines	-2010.
Note: All P	CO mg m arameters are within	unit as presei		TENETE LEVEL	
ND: Not De					
1 Samp 2 This media	le consumed in testing, epurt can neither be un without prior permiss	ETL	m the court of law n	or can it b AUT	er uned in part or hill in an P HORIZED SIGNATORY RANESSWAR RIDBAR Technical Hanages Environ Tach Laboratores

### NoC for Ropar Wetlands

25

	1	
8.18.2	A. NERU(3) BIES	
ਵੱਲੋ		
	ਸਹਾਇਕ ਡਾਇਰੈਕਟਰ ਮੇਂਡੀ ਪਾਲਣ, ਰਧਨਗਰ ।	1. 1. 5
ਸੇਵਾਵਿਖੇ,	Succes 1	
Constraints.	ਚੀਵ ਜਨਰਲ ਮੈਨੇਜ਼ਬ,	
	ਪੰਜਾਬ ਹੈਚੀਟੇਜ਼ ਐੱਡ ਟੂਰਿਜ਼ਮ ਪ੍ਰਮੇਸ਼ਨ ਬੋਰਡ,	
	ਚੰਡੀਗੜ੍ਹ ।	
िस्मिः	Finalization of IDIPT- ADB Tranche-2, Projects.	4
তৰাজা:	ਆਪ ਜੀ ਦਾ ਪੱਤਰ ਨੰ: PHTPB/IDIPT/2013/Tr-2/229/2494	ਮਿਤੀ 11-11-2013
	੍ਰੇਪਰੋਕਤ ਵਿਸ਼ੇ ਤੇ ਹਵਾਲੇ ਅਧੀਨ ਪੱਤਰ ਦੇ ਸਬੰਧ ਵਿੱਚ ਆਪ ਜੀ ਨੂੰ ਸ਼ੂ	ਚੇਤ ਕੀਡਾ ਜਾਂਦਾ ਹੈ, ਕਿ
ਟੂਰਿਜ਼ਮ ਵਿਭ	ਾਗ ਵੱਲੋਂ ਮੱਛੀ ਪੂੰਗ ਫ਼ਾਰਮ ਕੱਟਲੀ ਵਿਖੇ  ਐਕੁਏਰੀਅ <mark>ਮ-ਡਮ-ਅਵੇਅਰਨੈਸ</mark> ਸੈ	ਟਰ ਦੀ ਸਥਾਪਨਾਂ ਕਰਨ
ਲਈ ਮਾਨਯੋਗ	। ਮੁੱਖ ਸਕੱਤਰ ਪੰਜਾਬ ਜੀ ਦੀ ਪ੍ਰਧਾਨਗੀ ਹੇਠ ਮਿਤੀ 26-3-2008 ਨੂੰ ਹੋਈ	ਮੀਟਿੰਗ ਵਿੱਚ ਲਏ ਗਏ
ਫੈਸਲੇ ਅਨੁਸ	ਾਰ ਸਕੱਤਰ ਪਸ਼ੂ ਪਾਲਣ, <mark>ਮ</mark> ੱਛੀ ਪਾਲਣ ਅਤੇ ਡੇਅਰੀ ਇਕਾਸ ਵਿਭਾਗ ਜੀ ਵੱਲ	ਤੋਂ ਡਾਇਰੈਕਟਰ ਟੂਰਿਜ਼ਮ
ਪੰਜਾਬ ਚੰਤੀਰ	ਸਤ੍ਹ ਜੀ ਨੂੰ ਪ੍ਰਭਾਸ਼ਗੀ ਵਿੱਬੀ ਜਾ ਚੁੱਕੀ ਹੈ (ਪੱਤਰ ਦੀ ਨਕਲ ਨੱਥੀ ਹੈ )। ਪ	বর্মির স্তর্দী নর্যু সেরী
যায় উপ ষ্ব	ਨਾਉਣ ਸਬੰਧੀ ਮਾਨਯੋਗ ਵਿੱਤੀ ਕਮਿਸ਼ਨਰ ਪਸ਼ੂ ਪਾਲਣ,ਮੱਟੀ ਪਾਲਣ ਅਤੇ ਡੇਅਰ	ਿਵਿਕਾਸ ਵਿਭਾਗ ਪੰਜਾਬ
ਜੀ ਦੀ ਪ੍ਰਧਾਟ	ਨਗੀ ਹੇਠ ਮਿਤੀ 17–7–2009 ਨੂੰ ਮਿੰਨੀ ਸਕਤਰੇਕ ਚੰਡੀਕੜ੍ਹ ਵਿਖੇ ਹੋਈ ਮੀਟਿੰ	ਗ ਵਿੱਚ ਲਏ ਗਏ ਫੈਸਲੇ
ਅਨੁਸਾਰ ਇ	ਜ਼ਾਜਤ ਦੇ ਦਿੱਤੀ ਗਈ ਸੀ (ਕਾਰਵਾਈ ਦੀ ਕਾਪੀ ਨੱਥੀ ਹੈ) ਅਤੇ ਡਾਇਰੈ	ਕਟਰ ਦੇ ਵਾਰਤਨ ਮੰਡੀ
গ্ৰন্থায়, হিন্ত	ਾਗ ਪੰਜਾਬ ਜੀ ਦੇ ਆਖ ਜੀ ਵੱਲ ਮੀਮੇ ਨੰ: 12/3/09/ਐਫ.ਈ.ਓ/ਜੀਏ/1	971 ਸਿਤੀ 25-9-09
ਰਾਹੀਂ" ਇਤਰ	ਜ਼ਹੀਤਤਾ ਸ਼ਰਟੀਫਿਕੇਟ ਜਾਰੀ ਕੀਤਾ ਜਾ ਚੁੱਕਾ ਹੈ,ਜੀ (ਕਾਪੀ ਨੱਥੀ ਹੈ )।	
	ਇਹ ਅੰਘ ਜੀ ਦੇ ਧਿਆਨ ਵਿੱਚ ਲਿਆਇਆ ਜਾਂਦਾ ਹੈ, ਕਿ ਆਪ ਜੀ ਦੇ	ਵਿਭਾਗ ਵੱਲੋਂ ਮੈਂਛੀ ਪੂੰਗ
ਵਾਰਮ ਕੋਟਲ	ੇ (ਰੂਪਨਗਰ) ਵਿਖੇ ਐਕੁਏਰੀਅਮ–ਕਮ–ਅਵੇਅਰਨੈਸ ਸੈਂਟਰ ਦੀ ਉਸਾਰੀ ਦਾ	ਕੰਮ ਜੁਲਾਈ 2012 ਦੇ
ਆਖਰੀ ਹਰ	ਤੇ ਸ਼ੁਰੂ ਕੀਤਾ ਗਿਆ ਸੀ ਅਤੇ ਇੱਕ ਹਫਤੇ ਬਾਦ ਹੀ ਇਹ ਕੰਮ ਬੰਦ ਕਰ ਦਿੱਤਾ	ਗਿਆ । ਇਹ ਆਪ ਜੀ

ਸਹਾਇਕ ਡਾਇਰੈਕਦਰ ਮੱਛੀ ਪਾਲਣ,

ਰੂਪਨਗਰ । ਰਿੱਠ ਔਕਣ ਨ<u>ੈ: 1925</u> ਸਡਸਪ(ਰ) ਸਿਤੀ <u>...?/?/? - ਮਿਹਾਂ ਨੇ</u> ਉਤਾਰਾ ਡਾਇਰੈਕਟਰ ਤੇ ਵਾਰਡਨ ਮੱਛੀ ਪਾਲਣ ਵਿਭਾਗ, ਪੰਜਾਬ ਚੰਡੀਗੜ੍ਹ ਜੀ ਨੂੰ ਉਨ੍ਹਾਂ ਦੇ ਇਸ ਦਫਤਰ ਵੱਲ ਸੀਮੇ ਨੂੰ: 12/3/09/ਐਫ.ਈ.ਓ/ਜੀ.ਏ./12063 ਮਿਤੀ 19-11-2013 ਦੇ ਸਬੰਧ ਵਿੱਚ ਸੂਚਨਾਂ ਹਿੱਤ ਡੇਜਿਆਂ ਜਾਂਦਾ ਹੈ,ਜੀ ।

ਦੀ ਸੁਚਨਾਂ ਤੇ ਅਗਲੇਰੀ ਕਾਰਵਾਈ ਹਿੱਤ ਹੈ,ਜੀ ।

ਨੱਥੀ ਉਕਤ ਅਨੁਸਾਰ

ਮਹਾਇਕ ਡਾਟਿਰੈਕਟਰ ਮੰਛੀ ਪਾਲਣ, ਰੁਪਨਗਰ i

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#### 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 Ioan funded projects for the states of Punjab.

I hereby certify that; (RoperEco-Tourism Project)

- 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.
- 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
- 4) The Proposed Project Area /Building/Land is not Partially / Fully part of any other project funded under State Govt/Gol/External funding schemes
- 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.

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Head of the department (Name of the department)

#### **NoC for Harike Wetlands**

265 31-5-13 Government of Punjab Department of Forests and Wildlife Preservation O/o Chief Wildlife Warden, Punjab, 705 Forest Complex, 2nd Floor, 2 No. Tower, Much bulla where a Sector - 68, Ajitgarh (Mohali) Phone: 0172-2298010, 2298000 (Ext. 2201) Fax: 0172-2298036. 0 No: To The Project Director. IDIPT, Chandigarh. Dated: 27 Project on Development of Ferozepur as a Tourism Subject 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. The department will take operation and maintenance 3. responsibility of assets created through this Project. It is certified that no resettlement of people is involve in implementation of this Project. Encl. As above. hiperchap Chief Wildlife Warden, Puniab, Aiitgarh.

### 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.

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Head of the department (Name of the department)



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AN				PAN No. BPEI
	) NAB	L ACCRED	CHLABORA ITED & PPCB RECOG Area, Airport Road, Sector &	GNISED
E.T.L			2-10081, Email : environted	
				CLARK THE LOOK
No ET	1058 25 1718/12			Dated 517
	1. 1.			Dated
		ANAL	LYSIS REPORT	
				D 07 00 0012
REP 1.	ORT NO. ETL/25C/2017-18/ Laboratory Sample No.	12	ETL/05/2017-18/494	Date-05.07.2017
2.	Name of Industry		M/S Brightway Contracto	r and Developers, PK Verma
3.	Type of Sample		& CO.(JVF), Ropar, Punjab Ambient Air Monitoring	
4.	Date of Sample Collection	1	30.06.2017	
1. X. X. X.	3) Average Manometer Read		1.28 m³/Min	
	4) Time period for sampling 5) Volume of Air Sampled PARAMETERS	1	1.28 m³/Min 480 Minute 0.614 m <sup>3</sup> STANDARD	TEST METHOD
<u> </u>	4) Time period for sampling 5) Volume of Air Sampled		480 Minute 0.614 m <sup>3</sup>	TEST METHOD IS:5182(P-23)
1.	4) Time period for sampling 5) Volume of Air Sampled PARAMETERS	RESULTS	480 Minute 0.614 m <sup>3</sup> STANDARD	
	4) Time period for sampling 5) Volume of Air Sampled PARAMETERS PM 10	RESULTS 86	480 Minute 0.614 m <sup>3</sup> <b>STANDARD</b> 100.0 μg/m <sup>3</sup>	IS:5182(P-23)
2.	4) Time period for sampling 5) Volume of Air Sampled PARAMETERS PM 10 SO <sub>2</sub>	RESULTS 86 6	480 Minute 0.614 m <sup>3</sup> STANDARD 100.0 μg/m <sup>3</sup> 80.0 μg/m <sup>3</sup>	IS:5182(P-23) IS:5182(P-2)
2. 3.	4) Time period for sampling 5) Volume of Air Sampled PARAMETERS PM 10 SO <sub>2</sub> NO <sub>2</sub>	RESULTS 86 6 9	480 Minute 0.614 m <sup>3</sup> STANDARD 100.0 μg/m <sup>3</sup> 80.0 μg/m <sup>3</sup> 80.0 μg/m <sup>3</sup>	IS:5182(P-23) IS:5182(P-2) IS:5182(P-6)
2. 3. 4.	4) Time period for sampling 5) Volume of Air Sampled PARAMETERS PM 10 SO <sub>2</sub> NO <sub>2</sub> PM <sub>2.5</sub>	RESULTS 86 6 9 39	480 Minute 0.614 m <sup>3</sup> STANDARD 100.0 μg/m <sup>3</sup> 80.0 μg/m <sup>3</sup> 60.0 μg/m <sup>3</sup>	IS:5182(P-23) IS:5182(P-2) IS:5182(P-6) IS:5182(P-4)
2. 3. 4. + 5.	4) Time period for sampling 5) Volume of Air Sampled PARAMETERS PM 10 SO <sub>2</sub> NO <sub>2</sub> PM <sub>2.5</sub> CO	RESULTS 86 6 9 39 39 ND	480 Minute 0.614 m <sup>3</sup> STANDARD 100.0 μg/m <sup>3</sup> 80.0 μg/m <sup>3</sup> 80.0 μg/m <sup>3</sup> 60.0 μg/m <sup>3</sup> 4.0 mg/m <sup>3</sup>	IS:5182(P-23) IS:5182(P-2) IS:5182(P-6) IS:5182(P-4) IS:5182(P-10)
2. 3. 4. 5. 6. 7. 8.	4) Time period for sampling 5) Volume of Air Sampled PARAMETERS PM 10 SO <sub>2</sub> NO2 PM2.5 CO Nickel (Ni)	RESULTS 86 6 9 39 ND ND ND	480 Minute 0.614 m <sup>3</sup> STANDARD 100.0 μg/m <sup>3</sup> 80.0 μg/m <sup>3</sup> 80.0 μg/m <sup>3</sup> 60.0 μg/m <sup>3</sup> 4.0 mg/m <sup>3</sup> 20.0 ng/m <sup>3</sup>	IS:5182(P-23) IS:5182(P-2) IS:5182(P-6) IS:5182(P-4) IS:5182(P-10) BY AAS
2. 3, 4, 5, 6, 7,	4) Time period for sampling 5) Volume of Air Sampled PARAMETERS PM 10 SO <sub>2</sub> NO <sub>2</sub> PM <sub>2.5</sub> CO Nickel (Ni) Arsenic (As)	RESULTS 86 6 9 39 ND ND ND ND	480 Minute 0.614 m <sup>3</sup> STANDARD 100.0 μg/m <sup>3</sup> 80.0 μg/m <sup>3</sup> 80.0 μg/m <sup>3</sup> 60.0 μg/m <sup>3</sup> 4.0 mg/m <sup>3</sup> 20.0 ng/m <sup>3</sup>	IS:5182(P-23) IS:5182(P-2) IS:5182(P-6) IS:5182(P-4) IS:5182(P-10) BY AAS BY AAS IS:5182(P-22) IS:5182(P-11)
2. 3. 4. 5. 6. 7. 8. 9. 10.	4) Time period for sampling 5) Volume of Air Sampled PARAMETERS PM 10 SO2 NO2 PM2.5 CO Nickel (Ni) Arsenic (As) Lead (Pb) Banzene (CoHo) Benzo(a)pyrene (BaP)	RESULTS 86 6 9 39 ND ND ND ND ND ND ND ND ND ND	480 Minute 0.614 m <sup>3</sup> STANDARD 100.0 μg/m <sup>3</sup> 80.0 μg/m <sup>3</sup> 80.0 μg/m <sup>3</sup> 60.0 μg/m <sup>3</sup> 4.0 mg/m <sup>3</sup> 20.0 ng/m <sup>3</sup> 6.0 ng/m <sup>3</sup> 1.0 μg/m <sup>3</sup> 1.0 μg/m <sup>3</sup>	IS:5182(P-23) IS:5182(P-2) IS:5182(P-6) IS:5182(P-4) IS:5182(P-10) BY AAS BY AAS IS:5182(P-22) IS:5182(P-11) BY G.C
2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	4) Time period for sampling 5) Volume of Air Sampled PARAMETERS PM 10 SO7 NO2 PM25 CO Nickel (Ni) Arsenic (As) Lead (Pb) Banzene (C6H8) Benzo(a)pyrene (BaP) Ammonia (NH3)	RESULTS 86 6 9 39 ND ND ND ND ND ND ND ND ND ND ND ND	480 Minute 0.614 m <sup>3</sup> STANDARD 100.0 μg/m <sup>3</sup> 80.0 μg/m <sup>3</sup> 80.0 μg/m <sup>3</sup> 60.0 μg/m <sup>3</sup> 20.0 ng/m <sup>3</sup> 6.0 ng/m <sup>3</sup> 1.0 μg/m <sup>3</sup> 5.0 μg/m <sup>3</sup> 1.0 ng/m <sup>3</sup>	IS:5182(P-23) IS:5182(P-2) IS:5182(P-6) IS:5182(P-4) IS:5182(P-10) BY AAS BY AAS IS:5182(P-22) IS:5182(P-22) IS:5182(P-11) BY G.C APHA-Air (401)
2. 3. 4. 5. 6. 7. 8. 9. 10.	4) Time period for sampling 5) Volume of Air Sampled PARAMETERS PM 10 SO2 NO2 PM2.5 CO Nickel (Ni) Arsenic (As) Lead (Pb) Banzene (CoHo) Benzo(a)pyrene (BaP)	RESULTS 86 6 9 39 ND ND ND ND ND ND ND ND ND ND	480 Minute 0.614 m <sup>3</sup> STANDARD 100.0 μg/m <sup>3</sup> 80.0 μg/m <sup>3</sup> 80.0 μg/m <sup>3</sup> 60.0 μg/m <sup>3</sup> 4.0 mg/m <sup>3</sup> 20.0 ng/m <sup>3</sup> 6.0 ng/m <sup>3</sup> 1.0 μg/m <sup>3</sup> 1.0 μg/m <sup>3</sup>	IS:5182(P-23) IS:5182(P-2) IS:5182(P-6) IS:5182(P-4) IS:5182(P-10) BY AAS BY AAS IS:5182(P-22) IS:5182(P-11) BY G.C
2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	4) Time period for sampling 5) Volume of Air Sampled PARAMETERS PM 10 SO2 NO2 PM2.5 CO Nickel (Ni) Arsenic (As) Lead (Pb) Banzene (C6Ha) Benzo(a)pyrene (BaP) Ammonia (NH3) Ozone (O3) e: ND denotes Not Detect	RESULTS 86 6 9 39 ND ND ND ND ND ND ND ND ND ND ND ND ND	480 Minute 0.614 m <sup>3</sup> STANDARD 100.0 μg/m <sup>3</sup> 80.0 μg/m <sup>3</sup> 80.0 μg/m <sup>3</sup> 60.0 μg/m <sup>3</sup> 4.0 mg/m <sup>3</sup> 20.0 ng/m <sup>3</sup> 6.0 ng/m <sup>3</sup> 1.0 μg/m <sup>3</sup> 1.0 μg/m <sup>3</sup>	IS:5182(P-23) IS:5182(P-2) IS:5182(P-6) IS:5182(P-4) IS:5182(P-10) BY AAS BY AAS IS:5182(P-22) IS:5182(P-11) BY G.C APHA-Air (401) CPCB Guideline

ENDERTING       ENDERTING       ENDERTING       ENDERTING         ENDERTING       ENDERTING       ENDERTING       ENDERTING       ENDERTING         ENDERTING       ENDERTING       ENDERTING       ENDERTING       ENDERTING       ENDERTING         ENDERTING       ENDERTING       ENDERTING       ENDERTING       ENDERTING       ENDERTING       ENDERTING       ENDERTING       ENDERTING       ENDERTING       ENDERTING <td< th=""><th></th></td<>		
NABL ACCREDITED & PPCB RECOGNISED         Not No. 62, 1st Floor, JLPL Industrial Area, Alroort Road, Sector 82, S.A.S. Nagar (Mohali) Tele : 9463000081, Mob. 94172-10081, Email : environtechlab72@yahoo.com         No. ETL/DS.P.P.S./J.F.18/18         Dated :	PEPSONO	
Ent       No. ETL/DSP/25/17/18/14       Dated : 51       TEST REPORT       Date: 51       Date: 51 <td colsp<="" td=""><td>Pb.</td></td>	<td>Pb.</td>	Pb.
TEST REPORT         Date-05.07.2017         I Laboratory Sample No.       TTL/05/2017-18/496A         1       Laboratory Sample No.       TTL/05/2017-18/496A         2       Name of Industry       W/S Brightway Contractor and Developers, P         3       Type of Sample       Noise Monitoring (Day)         4       Date of Monitoring       30.06.2017         5r. No.       Location       Results       Standards         5r. No.       Location       Results       Standards       Test Method         1       Average Around Project Site(DAY)       58.5       65(DAY)       15.9989 Reft 20         1       Average Around Project Site(NIGHT)       49.3       55(NIGHT)       15.9989 Reft 20         Note:       Intervent refers only to tested sample and applicable parameters.       1	7/2017	
REPORT NO. ETL/25E/2017-18/14A     Date-05.07.2017       1     Laboratory Sample No.     ETL/05/2017-18/496A       2     Name of Industry     M/5 Brightway Contractor and Developers, P       2     Name of Industry     Verma & CO.(JVF), Amritsar, Punjab       3     Type of Sample     Noise Monitoring (Day)       4     Date of Monitoring     30.06.2017       5r. No.     Location     Results     Standards       1     Average Around Project Site(DAY)     58.5     65(DAY)     15:9989 Reff.20       1     Average Around Project Site(NIGHT)     49.3     55(NIGHT)     15:9989 Reff.20       Note:		
REPORT NO. ETL/25E/2017-18/14A     Date-05.07.2017       1     Laboratory Sample No.     ETL/05/2017-18/496A       2     Name of Industry     M/5 Brightway Contractor and Developers, P       2     Name of Industry     Verma & CO.(JVF), Amritsar, Punjab       3     Type of Sample     Noise Monitoring (Day)       4     Date of Monitoring     30.06.2017       5r. No.     Location     Results     Standards       1     Average Around Project Site(DAY)     58.5     65(DAY)     15:9989 Reff.20       1     Average Around Project Site(NIGHT)     49.3     55(NIGHT)     15:9989 Reff.20       Note:		
Kerroritor sample No.     ETL/05/2017-18/496A       1.     Laboratory Sample No.     ETL/05/2017-18/496A       2.     Name of Industry     M/S Brightway Contractor and Developers, P       2.     Name of Industry     Verma & CO.([VF], Amritsar, Punjab       1.     Type of Sample     Noise Monitoring (Day)       3.     Type of Sample     Noise Monitoring (Day)       4.     Date of Monitoring     30.06.2017       5r. No.     Location     Results (Leq)     Standards (Leq)       1     Average Around Project Site(DAY)     58.5     65(DAY)       2     Average Around Project Site(NIGHT)     49.3     55(NIGHT)       1     The test report refers only to tested sample and applicable parameters.		
Kerroritor sample No.     ETL/05/2017-18/496A       1.     Laboratory Sample No.     ETL/05/2017-18/496A       2.     Name of Industry     M/S Brightway Contractor and Developers, P       2.     Name of Industry     Verma & CO.([VF], Amritsar, Punjab       1.     Type of Sample     Noise Monitoring (Day)       3.     Type of Sample     Noise Monitoring (Day)       4.     Date of Monitoring     30.06.2017       5r. No.     Location     Results (Leq)     Standards (Leq)       1     Average Around Project Site(DAY)     58.5     65(DAY)       2     Average Around Project Site(NIGHT)     49.3     55(NIGHT)       1     The test report refers only to tested sample and applicable parameters.		
Image: Second stress     M/S     Brightway Contractor and Developers, P       2.     Name of Industry     Verma & CO.([VF], Amritsar, Punjab       3.     Type of Sample     Noise Monitoring (Day)       4.     Date of Monitoring     30.06.2017       5r. No.     Location     Results (Leq)     Standards (Leq)       1     Average Around Project Site(DAY)     58.5     65(DAY)       2     Average Around Project Site(NIGHT)     49.3     55(NIGHT)       1     The tast report refers only to tested sample and applicable parameters.	Les L	
Image: Str. No.     Location     Results (Leq)     Standards (Leq)       1     Average Around Project Site(DAY)     58.5     65(DAY)     15:9989 Reff.20       2     Average Around Project Site(NIGHT)     49.3     55(NIGHT)     15:9989 Reff.20       Note:	к	
Image: Str. No.     Location     Results (Leq)     Standards (Leq)       1     Average Around Project Site(DAY)     58.5     65(DAY)     15:9989 Reff.20       2     Average Around Project Site(NIGHT)     49.3     55(NIGHT)     15:9989 Reff.20       Note:		
St. No.     Location     (Leq)       1     Average Around Project Site(DAY)     58.5     65(DAY)       2     Average Around Project Site(NIGHT)     49.3     55(NIGHT)       Note:     Image: State of the st		
Sr. No.     Location     (Leq)       1     Average Around Project Site(DAY)     58.5     65(DAY)       2     Average Around Project Site(NIGHT)     49.3     55(NIGHT)       Note:     Image: Site (Site (	4	
1         Average Around Project Site(NAT)         3005         51(NGHT)           2         Average Around Project Site(NIGHT)         49.3         55(NIGHT)         15:9989 Reff.20           Note:         1         The fact report refers only to tested sample and applicable parameters.         1	•	
1         Average Around Project Site(NIGHT)         3000         50(011)           2         Average Around Project Site(NIGHT)         49.3         55(NIGHT)         15:9989 Reff.20           Note:         1         The test remost refers only to tested sample and applicable parameters.         1	001	
Note:		
any media without prior permission.	pue	
(Authorized Signator RAMESHWAR KUMAR Technical Manager Environ Tech Lakorstonies		
**End of Report**		
ting of Water. Waste Water, Soil, Food, Monitoring of Ambient Air, Ambient Noise & Sta	ck Emirale	

REPORT N	25/1718/14			Dated: 5/7/20
REPORT N	25/1718/14			Dated :
		ANALYS	AS REPORT	
				Date-05.07.2017
and the second	O. ETL/25C/2017-18/ ratiory Sample No.	1	ETL/05/2017-18/496	
2 Nam	E of Industry	N	1/S Brightway Contractor	and Developers, PK Verma
	a series and the		CO.([VF], Amritsar, Punja Ambient Air Monitoring	
	of Sample Collection		30.06.2017	
3.5		THE REAL PROPERTY AND	DATA & RESULTS	
	ome of Air Sampled PARAMETERS	RESULTS	33 m <sup>3</sup> STANDARD	TEST METHOD
1	PM	79	100.0 µg/m <sup>3</sup>	(S:5182(P-23)
2	SOr	7	80.0 µg/m <sup>3</sup>	15:5182(P-2)
3	NG2	10	80.0 µg/m <sup>v</sup>	15:5182(P-6)
4	PMas	36	60.0 µg/m <sup>3</sup>	15:5182(P-4)
5.	00	ND	4.0 mg/m <sup>3</sup>	IS:5182(P-10)
6	Nickel (Ni)	ND	20.0 ng/m <sup>3</sup>	BY AAS
7.	Arsenic (As)	ND	6.0 ng/m <sup>3</sup>	BY AAS
8	Lead (Pb)	ND	1.0.µg/m <sup>3</sup>	IS:51B2(P-22)
9. 1	lanzene (C.H.)	ND	5.0 µg/m <sup>2</sup>	15:5182(P-11)
10. Henz	to[a]pyrene (BaP)	ND	1.0 ng/m <sup>2</sup>	BY G.C
L. A	mmonia (NH1)	ND	400.0 µg/m <sup>3</sup>	APHA-Air (401)
2	Ozone (01)	ND	180.0 µg/m <sup>3</sup>	CPCB Guideline
Note: ND o	lenotes Not Detect	able,		TRACTOR TRACTOR
1,70	te test report refers	only to tested	sample and applicable	parameters.
2. Th	is report can neithe	er be used as e	vidence in the court of	law nor can it be used in
	or full in any media	Without prior	permission.	0
Part	Kech Lab			(Authorized Signatory)
1L A 2 Note: ND c 1. Tl 2. Th	nimonia (NH <sub>1</sub> ) Ozone (O <sub>1</sub> ) lenotes Not Detect le test report refers	ND ND table, : only to tested er be used as e	400.0 µg/m <sup>3</sup> 180.0 µg/m <sup>3</sup> sample and applicable vidence in the court of	APHA-, CPCB of parameters. law nor can it b

**Minutes of the Meeting with Forest Department** 

The Deputy Team Leader (DSC), House No. 221, Giani Zial Singh Nagar, Ropar PIU-Ropar/Tr-3/2016/ 269 1434 Sub: Eco - Tourism Development of Wildlife Zoo [PB/IDIPT/T3/05/04] variation Please find enclosed herewith minutes of the meeting held with officials of the in the package cited as subject has also been given by the APD. Accordingly you are advised to prepare the variation proposal with detailed PIU-Ropar/Tr-3/2016/ 219/435/436/437 dated 28/03/2016 1. APD, PHTPB, IDIPT, Chandigarh w.r.t. his letter No. 7245 dated 08.03.2016 for information pleae. 2. CGM, PMU, IDIPT, Chandigarh for information please. 3. TL, PMC, PHTPB, IDIPT, Chandigarh for information please.

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

To.

No.

dated <u>28 03 20</u>16

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

forest department GOP on 05.02.2016 under the chairmanship of worthy APD. In the above minutes principle approval for the components to be dropped and added/modified

calculations as per actual site conditions and norms so that the same can be submitted for its approval to the higher authority.

9 Project Manager, PIU – Ropar

No.

Copy to:

Project Manager, PIU – Ropar

/	
ò	
	Project Manager Project Implementation Unit Ropar
	No. PHTPB/IDIPT/2016/ 7245 Dated: 08-03-2016
ubject:	Eco Tourism Development of Wildlife Zoo: Package: T3/05/04: Variation.
lef:	Meeting with the officials of Forest Department GoP on dared 05-02-2016 in the chairmanship of APD.
(i)	Yourself and DTL-DSC were present in the meeting dated 05-02-2016.
	<ol> <li>Based on the availability of funds, Forest officials suggested their priorities for better functional requirements and tourist management in the zoo.</li> </ol>
	<ol> <li>Accordingly some components are to be dropped and some components are to be added or modified in the tendered BoQ of the contract package PB/IDIPT/T3/05/04 Eco tourism Development of Wildlife Zoo.</li> </ol>
	<ol> <li>Since sewer lines in the entire zoo cannot be laid under this package, it is proposed to drop Sewage Treatment Plants from tendered BOQ.</li> </ol>
	4. Strengthening of existing Parking is taken in the package. The parking requirement assessed by Zoo authorities is much more. They want much bigger parking area to be freshly developed which cannot be accommodated in the contract package. Therefore, it is proposed to drop parking item from tendered BOQ.
	<ol><li>Forest officials suggested that the saving in the expenditure proposed to be dropped items can be utilized for some other items.</li></ol>
	<ol> <li>Paved shoulders are required for Primary loop roads. Strengthening of Lion Safari and Deer Safari Roads is required. The Design of Food Plaza, Visitor shelters, Interpretation centre and Entrance Road are required to be enlarged.</li> </ol>
	<ol> <li>Accordingly, expected variation based on tentative lump sum expenditure estimate worked out is attached herewith.</li> </ol>
situations an	You are advised to prepare actual variation proposal with detailed calculations as per actual site d norms for submission for approval at the earliest.
	(162
	CC: 1. PA/PD 2. CGM 3. TL-PMC 2. CGM 3. TL-PMC 2. CGM 2. CGM 2

#### NoC from Chief Wildlife warden for Chhatbir Zoo

NU. PHUEDI 1420 Government of Punjab Department of Forests and Wildlife Preservation 13 11572012 O/o Chief Wildlife Warden, Punjab, Delot 7 Forest Complex, 2nd Floor, 2 No. Tower, Sector - 68, Ajltgarh (Mohall) Phone: 0172-2298010, 2298000 (Ext. 2201) Fax: 0172-2298036. PHTD 1142. No: To The Project Director, IDIPT, Chandigarh. ANT Dated: 24/5/13. Project on Development and Expansion of visitor's amenities at Chhatbir Zoo through IDIPT for Punjab Subject to be taken up in Tranche-2 ADB Project. A copy of above cited Project is submitted for your consideration. Total Project Cost is ₹9.99 crores. This Project was prepared by Field Director, M.C. Zoological Park, Chhatbir and thoroughly discussed at District Level Committee. The Project was further scrutinized on 10.5.2013 at joint meeting between Forest Department and IDIPT. It is further submitted that: This department strongly recommends this Project. 1. This department has no objection if the Project is taken up 2. with the assistance of ADB. The department will take operational and maintenance 3. responsibility of assets created through this Project. It is certified that no resettlement of people is involve in 4. implementation of this Project. Dhipmchadin Encl. As above. Chief Wildlife Warden, Punjab, Ajitgarh. Dated: Endst. No. 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.

PACKA	GE 5/4: E	co-Tourism Development of <b>Noise Quali</b>				
	111	ENVIRON TEC NABL ACCREDITE t No. 62, 1st Floor, ILPL Industrial Area Tele : 9463000081, Mob. 94172-10 SE[25]17-18]10	H LAE D & PPCE	BORATO RECOGNIST	ED S. Nagar (Mohali) Pb.	
		TEST	REPORT			
the state of the	-			Date-05.0	7.2017	
122		NO. ETL/25E/2017-18/10A atory Sample No.	ETL/05/20	17-18/492A		28.03
	The second se	of Industry	M/S Brigh	tway Contractor	and Developers,	- Partie
			Zirakpur,	Punjab itoring (Day)		
		of Sample of Monitoring	29.06.2017			
131-	4. Date	of monitoring	P.S.M.M.M.V.Y.			
and an	Sr. No.	Location	Results (Leq)	Standards (Leq)	Test Method	
170-15	-	Average Around Project Site(DAY)	56.1	65(DAY)	IS:9989 Reff.2001	
1000	1 2	Average Around Project Site(NIGHT)	50.5	SS(NIGHT)	15:9989 Reff.2001	
	2.11	he test report refers only to tested sample a his report can neither be used as evidence i media without prior permission.	ch Lago and applicable	Law NOT CAN IT OF G	sed in part or full in Accuration form sthorized Signatory) RAMESHARAN KUMAR Service Hanager Environ Tech Laboratories	•
		and a	of Report**			
State of the		**End	of Report-			
State						
Te	sting of Wa	ter. Waste Water, Soil, Food, Monito	oring of Amb	aient Air, Ambie	nt Noise & Stack Emis	tion

TO	ENVIR	ON TEO	CH LABORA	PAN No BPEPBOR
	NADL	ALCREDI	TED & FFCD RECO	82, S.A.S. Nagar (Mohali) Pb.
2	Plot No. 62, 1st Floor, JUP	Mob 94172	10081, Email : environte	chiab72@yahoo.com
ELL	ICIN PROPERTY	Camer In		
				Dated : 5/7 2
NO. ETL	10 10 10 10 10 10			Dated :
		ANALY	SIS REPORT	
				Date-05.07.2017
REF	PORT NO. ETL/25C/2017-18/ Laboratory Sample No.	10	ETL/05/2017-18/492	
2.	Name of industry	TO STATUT	M/S Brightway Contracto	r and Developers, Zirakpur,
		12122	Punjab Ambient Air Monitoring	
3,	Type of Sample Date of Sample Collection		29.06.2017	
		TROUMON	DATA & RESULTS	17 15 No. 18 18 19 19
	2) Instrument used for samp 3) Average Manometer Read 4) Time period for sampling 5) Volume of Air Sampled	ling : 1. : 40	espirable Dust Sampler 25 m³/Min 30 Minute .60.624 m³	
1201	PARAMETERS	RESULTS	STANDARD	TEST METHOD
1.	PM 10	82	100.0 µg/m <sup>3</sup>	IS:5182(P-23)
2.	SO <sub>2</sub>	4	80.0 µg/m <sup>3</sup>	IS:5182(P-2)
3.	NOL	8	80.0 µg/m <sup>3</sup>	IS:5182(P-6)
4.	PM <sub>ZX</sub>	36	60.0 µg/m <sup>3</sup>	15:5182(P-4)
	CO	ND	4.0 mg/m <sup>3</sup>	1S:5182(P-10)
S.	Nickel [Ni]	NÐ	20.0 ng/m <sup>3</sup>	BY AAS
6.	the second se	ND	6.0 ng/m <sup>3</sup>	BY AAS
6. 7.	Arsenic (As)			
6.	Lead (Pb)	ND	1.0 µg/m <sup>3</sup>	IS:5182(P-22)
6. 7. 8. 9.	Lead (Pb) Banzene (C <sub>a</sub> H <sub>a</sub> )	ND	5.0 µg/m <sup>3</sup>	IS:5182(P-11)
6. 7. 8.	Lead (Pb)		5.0 µg/m <sup>3</sup> 1.0 ng/m <sup>3</sup>	15:5182(P-11) BY G.C
6. 7. 8. 9. 10. 11.	Lead (Pb) Banzene (C <sub>6</sub> H <sub>6</sub> ) Benzo(a)pyrene (BaP) Ammonia (NH <sub>3</sub> )	ND ND ND	5.0 µg/m³ 1.0 ng/m³ 400.0 µg/m³	IS:5182(P-11) BY G.C APHA-Air (401)
6. 7. 8. 9. 10. 11. 12.	Lead (Pb) Banzene (C <sub>a</sub> H <sub>a</sub> ) Benzo(a)pyrene (BaP) Ammonia (NH <sub>7</sub> ) Ozone (O <sub>4</sub> )	ND ND ND ND	5.0 µg/m <sup>3</sup> 1.0 ng/m <sup>3</sup>	15:5182(P-11) BY G.C
6. 7. 8. 9. 10. 11. 12.	Lead (Pb) Banzene (CaHa) Benzo(a)pyrene (BaP) Ammonia (NH <sub>2</sub> ) Ozone (O <sub>3</sub> ) :: ND denotes Not Detect 1. The test report refere	ND ND ND table, s only to teste er be used as	5.0 µg/m <sup>3</sup> 1.0 ng/m <sup>3</sup> 400.0 µg/m <sup>3</sup> 180.0 µg/m <sup>3</sup> d sample and applicable evidence in the court of	IS-5182(P-11) BY G.C APHA-Air (401) CPCB Guideline

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

NO OB.	JECTION CERTIFIC	ATE
It is certified that there is no		
QILA MUBARAK,	PATIALA (name of the project )	
s executed by PHTPB of the Tour		
Govt. of India and ADB loan funde	d projects under IDIPT a	at PATIALA
	7	2
(de	tails of land/area/ building )	************************************
		-×
Place: Shandijarh Date: 27/8/14	Signature	Department /owner
		(Official Stamp)
*	Counter Signed	Director, Cultral Affairs Archaeology & Museums, Punjab, Chandigarh
	6	
D	Deputy Commissioner Deputy Commissi	ano-
	DATIAL	

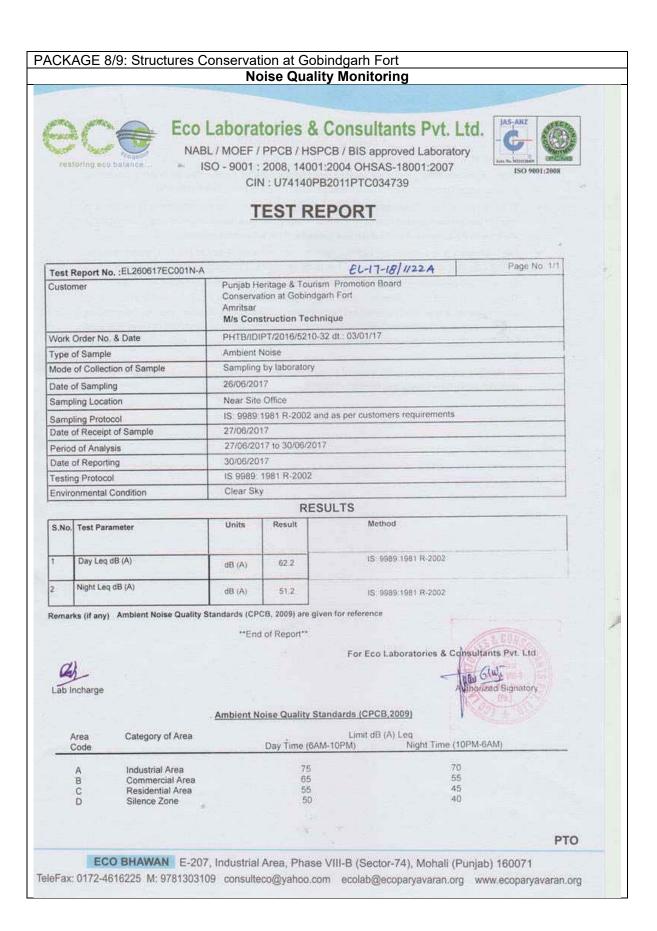
CERT	FICATE AND UNDERTAKING
It is certified that: -	
1. The Q.I.L.A. MUBAR	AK, PATTALA tails of land/area/ building ) Where
execution by PHTPB of the T SERT: OF CULTURE under the possession of Dept. of CL 2. There is NO encroachme	F QILA MUBARAK, PATIALA (name of the project.) fourism Department (Punjab), is under the ownership of (Details of the owner)
	Partially/Fully part of any other project funded under any e State/Central Govt. or any external funding.
over for operation and mainten	ult of the execution of above stated project will be taken ance by (Name of the department/organization tunal Affairs .
Place: Chandigarh Date: 27/8/14	Signature
	Counter Signed Cultral Affairs Archaeology & Museums, Punjab, Chandigarh
	Deputy Commissioner

	Nois	e Quality Monitoring
	A CONSULTIN	HOUSE)
		75.2322224, 2320175, (M) 92164-21540, 92161-21540 Email - Itichpatiala@gmail.com
Test	E MONITORING ANALYSIS REPORT Report No. ITUEDICS 12 01	
Dep	ALCE Date: 12/05/2017	
1	Laboratory Sample No.	ITL/05-17/33/02
2	Issued To	Civil Engineer, Project Implementation Unit-Ropar #320,Giani Zlat Singh Nagar,Ropar.
3	Project	Patiata Hentage Conservation and Tourism Development Project(Qila Mutana) Ref. No. PIU-RoparTr.3/QM/2017/05
4.	Type of sample Date of sampling	Noise Level 12/05/52017
-	and the second provide	Test Results
Sr.	Location of Noise Measurement	Noise Level in dB(A)
No.		DayTime (Leq)
1.	Near construction site	61
2.	Atqila	44
	Regulatory Standards in respect of Noise	65dB (A)
		Anse Polution (Regulation and Control) Rules, 2000
		Contraction of the second s
ANA	TST	AUTHORIZED SIGNATORY

Test Report No.     ITL/05-17/33/01       1.     Laboratory Sample No.     ITL/05-17/33/01       2.     Issued to     Civil Engineer. Project Implementation Unit-Ropar #320.Glassi Zial Singh Nagar.Roper.       3.     Project     Patala Hernaps Conservation and Toursen Development Project(Cilia Muberak) Ret. No. Proj. Project(Cilia Muberak) Ret. No. Project(Cilia Muberak) Ret. No. Project(Cilia Muberak) Ret. No.       5.     Date of commencement of sample     12/05/2017       6.     Location of Sample Collection     Near Construction site       Test Results       St.     Parameters     Results       St.     Parameters     Results       1.     PM -10, (ug/m/l)     77     100
2     Issued to     Civil Engineer, Project implementation Unit-Repar #320,Giant Zial Singh Nagar Repar       3     Project     Passis Heritage Conservation and Toursen Developme Project(Qian Muberat)-Ret No. PIU Reparts 3/GM2211       4     Type of Sample     Ambient Air Quality Monitoring       5     Date of commencement of sample     12/05/2017       6     Location of Sample Collection     Near Construction site       Test Results       Sr       No.     Parameters     Results       St     Parameters     Results       St     Results     Test method (NAQS)
2         Issued to         Civil Engineer. Project implementation Unit-Repar #320 Giant Zial Singh Nagar, Ropet.           3         Project         Patala Herizage Conservation and Tournern Development Project/Qial Mutacak) Ref. No. PtU Reparts 30(All 2017)           4         Type of Sample         Ambient Air Quality Monitoring           5         Date of commencement of sample         12/05/2017           6         Location of Sample Collection         Near Construction site           Test Results           Sr         Parameters         Results         Regulatory Standards (NAAQS)         Test method
3         Project         Patala Heritage Conservation and Tourism Developme Project(Qila Mubasak) Ref. No. PIU PoperTit 3CQM2217           4.         Type of Sample         Ambient Air Quality Monitoring           5.         Date of commencement of sample         12/05/2017           6.         Location of Sample Collection         Near Construction site           Test Results           Sr. Parameters           No.         Parameters         Results         Regulatory Standards (NAAQS)         Test method
4         Type of Sample         Ambient Air Quality Monitoring           5         Date of commencement of sample         12/05/2017           6         Location of Sample Collection         Near Construction site           Test Results           Sr. Parameters         Results           No.         Parameters         Results         Test method (NAAQS)
6         Location of Sample Collection         Near Construction site           Test Results           Sr.         Parameters         Results         Regulatory         Test method           No.         Standards         (NAAQS)         Construction site         Construction site
Test Results           Sr.         Parameters         Results         Regulatory         Test method           No.         Standards         (NAAQS)         Test method         Image: Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspa
No. Standards (NAAQS)
The Previous and the state of t
2 PM -2.5, (µg/m <sup>3</sup> ) 55 60 IS 5182(Part-23).
3 Oxides of Sulphur SO2 (µg/m²) 10 80 IS 5182(Part-2) 2
4. Oxides of Nitrogen NO <sub>2</sub> , (µg/m <sup>3</sup> ) 17 80 IS 5182(Part-6)
5. Carbon monoxide CO , (mg/m <sup>2</sup> ) N.D 2.0 CO meter
ND And Detected

PACKAG	GE 7/7: Es	tablishment of Tourism Fac Culture, Chamkaur S <b>Noise Quality</b>	Sahib (	(Civil Wo		e Showcasing of S	Sikh
Real Property in the local division of the l		Noise Quality	WOIII	toring	367813		
1 States	~					PAN No. BPEP	
1	(MAN)	<b>ENVIRON TE</b>	СН	LARC	RAT		
TK		NABL ACCREDI					
		lot No. 62, 1st Floor, JLPL Industrial A	rea, Airr	ort Road, S	ector 82, S.	A.S. Nagar (Mohali) Pb.	
	ETL	Tele : 9463000081, Mob. 94172	-10081,	Email : env	irontechlab	72@yahop.com	
Ref	NO ETLI	29P/25/1718/08				Dated : 5 [7]	257
and the second			-				
		IES	T REPOR				
Party setting							
		T NO. ETL/25E/2017-18/08A ratory Sample No.	1	ETL/05/201	Date-05.0 7-18/479A	07.2017	
	2 Nam	e of Industry	1	M/S Singla	Construction	Ltd, Site-Theme Park,	
S. C. Salar	3 Type	of Sample		Noise Monite	opar, Punjab		
	-) Date	of Monitoring	, P	29.06.2017			
	Sr. No.	Location	Resu (Leo	and the second s	tandards (Leq)	Test Method	
	1	Average Around Project Site(DAY)	54.	the second s	SS(DAY)	IS:9989 Reff.2001	
1	2 Note:	Average Around Project Site(NIGHT)	47.	1 5:	5(NIGHT)	15:9989 Reff.2001	
and the west	1.	The test report refers only to tested samp. This report can neither be used as evidence	le and ap	plicable para	meters.	and in most on fail	
		in any media without prior permission.	chli		tor can it be u	sed in parcor tun	
		51	ecti Le	1/2			
			ETL	onies	(Auti	horized Signatory)	
			Monall*	/			
and the second second		**End	of Repor	t**			
and the second second							
N. Carlos and							
	Testing of Wa	iter. Waste Water, Soil, Food, Monito	ring of A	Ambient Au	Ambient N	loise & Stack Emission	
		and the second second			5		Barris .

			ECH LABORA	
ETL	Plot No. 62, 1st Floor, JI Tele : 94630000	PL Industria 81, Mob. 941	Area, Airport Road, Sector 8 72-10081, Email : environted	32, S.A.S. Nagar (Mohall) Pt chlab72@yahoo.com
f. No. E.I	L)DSP[25]17-18 08			Dated
				Dated
		ANA	LYSIS REPORT	
RE	PORT NO. ETL/25C/2017-18	/08		Date-05.07.2017
1.	Laboratory Sample No. Name of Industry		ETL/05/2017-18/479	
al al	and or muustry		M/S Singla Construction L Chamkaur Sahib, Distt Rop	
3.	Type of Sample		Ambient Air Monitoring	
4.	Date of Sample Collection		29.06.2017	
		TECHNIC	AL DATA & RESULTS	
	<ol> <li>2) Instrument used for sam</li> <li>3) Average Manometer Rea</li> <li>4) Time period for sampling</li> <li>5) Volume of Air Sampled</li> </ol>	ding :	Respirable Dust Sampler 1.3 m <sup>3</sup> /Min 480 Minute 0.624 m <sup>3</sup>	
	PARAMETERS	RESULTS	STANDARD	TEST METHOD
1.	PM 10	88	100.0 μg/m <sup>3</sup>	IS:5182(P-23)
	SO2	7	80.0 µg/m <sup>3</sup>	IS:5182(P-2)
2.		10	80.0 μg/m <sup>3</sup>	IS:5182(P-6)
3.	NO <sub>2</sub>	and all the second s		
3. 4.	PM2.5	35	60.0 µg/m <sup>3</sup>	IS:5182(P-4)
3. 4. 5.	PM <sub>2.5</sub> CO	ND	4.0 mg/m <sup>3</sup>	IS:5182(P-4) IS:5182(P-10)
3. 4. 5. 6.	PM25 CO Nickel (Ni)	ND ND	4.0 mg/m <sup>3</sup> 20.0 ng/m <sup>3</sup>	
3. 4. 5. 6. 7.	PM <sub>2.5</sub> CO Nickel (NI) Arsenic (As)	ND ND ND	4.0 mg/m <sup>3</sup> 20.0 ng/m <sup>3</sup> 6.0 ng/m <sup>3</sup>	IS:5182(P-10) By AAS By AAS
3. 4. 5. 6. 7. 8.	PM2.5 CO Nickel (Ni) Arsenic (As) Lead (Pb)	ND ND ND ND	4.0 mg/m <sup>3</sup> 20.0 ng/m <sup>3</sup> 6.0 ng/m <sup>3</sup> 1.0 μg/m <sup>3</sup>	IS:5182(P-10) BY AAS BY AAS IS:5182(P-22)
3. 4. 5. 6. 7. 8. 9.	PM <sub>2.5</sub> CO Nickel (Ni) Arsenic (As) Lead (Pb) Banzene (C <sub>0</sub> H <sub>6</sub> )	ND ND ND ND ND	4.0 mg/m <sup>3</sup> 20.0 ng/m <sup>3</sup> 6.0 ng/m <sup>3</sup> 1.0 μg/m <sup>3</sup> 5.0 μg/m <sup>3</sup>	IS:5182(P-10) BY AAS BY AAS IS:5182(P-22) IS:5182(P-11)
3. 4. 5. 6. 7. 8. 9. 10.	PM <sub>2.5</sub> CO Nickel (NI) Arsenic (As) Lead (Pb) Banzene (C <sub>6</sub> H <sub>6</sub> ) Benzo(a)pyrene (BaP)	ND ND ND ND ND ND	4.0 mg/m³           20.0 ng/m³           6.0 ng/m³           1.0 µg/m³           5.0 µg/m³           1.0 ng/m³	IS:5182(P-10) BY AAS BY AAS IS:5182(P-22) IS:5182(P-11) BY G.C
3. 4. 5. 6. 7. 8. 9. 10. 11.	PM2.5 CO Nickel (Ni) Arsenic (As) Lead (Pb) Banzene (CoHo) Benzo(a)pyrene (BaP) Ammonia (NH3)	ND ND ND ND ND ND ND	4.0 mg/m³           20.0 ng/m³           6.0 ng/m³           1.0 µg/m³           5.0 µg/m³           1.0 ng/m³           400.0 µg/m³	IS:5182(P-10) BY AAS BY AAS IS:5182(P-22) IS:5182(P-11) BY G.C APHA-Air (401)
3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	PM25 CO Nickel (Ni) Arsenic (As) Lead (Pb) Banzene (C6H6) Benzo(a)pyrene (BaP) Ammonia (NH3) Ozone (O3) te: ND denotes Not Detect	ND ND ND ND ND ND ND ND ND ND Table,	4.0 mg/m³           20.0 ng/m³           6.0 ng/m³           1.0 µg/m³           5.0 µg/m³           1.0 ng/m³           400.0 µg/m³           180.0 µg/m³	IS:5182(P-10) BY AAS BY AAS IS:5182(P-22) IS:5182(P-11) BY G.C APHA-Air (401) CPCB Guideline
3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	PM25 CO Nickel (Ni) Arsenic (As) Lead (Pb) Banzene (C6H6) Benzo(a)pyrene (BaP) Ammonia (NH3) Ozone (O3) te: ND denotes Not Detect 1. The test report refer	ND ND ND ND ND ND ND ND table, ers only to te ther be used	4.0 mg/m³         20.0 ng/m³         6.0 ng/m³         1.0 µg/m³         1.0 ng/m³         400.0 µg/m³         180.0 µg/m³         sted sample and applicable p as evidence in the court of latt prior permission.	IS:5182(P-10) BY AAS BY AAS IS:5182(P-22) IS:5182(P-11) BY G.C APHA-Air (401) CPCB Guideline barameters.



### Ambient Air Quality Monitoring



### Eco Laboratories & Consultants Pvt. Ltd.



NABL / MOEF / PPCB / HSPCB / BIS approved Laboratory ISO - 9001 : 2008, 14001:2004 OHSAS-18001:2007 CIN : U74140PB2011PTC034739

### **TEST REPORT**

## SE.

Test Report No. :EL260617EC001			6617-18/1121	Page No. 1/1				
Customer	r Punjab Heritage & Tourism Promotion Board Conservation at Gobindgarh Fort Amritsar M/s Construction Technique							
Work Order No. & Date	PHTB/IDIPT	/2016/52	10-32 dt.: 03/01/17					
Type of Sample	Ambient Air							
Mode of Collection of Sample	Sampling by	laborato	ny					
Date of Sampling	26/06/2017							
Sampling Location	Near Site Office							
Sampling Protocol	IS: 5182 (P-	14) 2000	, CPCB Guidelines and Customer's R	equirements.				
Date of Receipt of Sample	27/06/2017							
Period of Analysis	27/06/2017	to 30/06/	2017					
Date of Reporting	30/06/2017							
Testing Protocol	NAAQS 2009							
Environmental Condition	Clear Sky							
		R	ESULTS					
C No. Test Developter	Units	Results	NAAQS 2009 Test Method					

S.No.	Test Parameter	Units	Results	NAAQS 2009	Test Method
1	Particulate Matter (PM 10)	µg/m3	86	100	IS 5182 (P-23) 2004
2	Particulate Matter (PM 2.5)	µg/m3	48	60	Lab SOP EL-A1-PM2 5 Issue 01 Dated 1.6.14 based on Manufacturer's Manual and CPCB Guidelines
3	Sulphur Dioxide (SO2)	µg/m3	8.6	80	IS:5182 (P-2) 2001
4	Nitrogen Oxides (as NO2)	µg/m3	18.2	80	IS 5182 (P-6) 2006
5	Ammonia (NH3)	µg/m3	21	400	APHA lind Ed 1977 Method 801
6	Ozone (O3)	µg/m3	9.6	180	IS:5182 (Part-9) 1974 R2003
7	Carbon Monoxide (CO)	mg/m3	<1.5	04	Lab SOP EL-A2-CO Issue 01 Dated 1.6.14 Electrochemical Method- Manufacturer's Manual

Remarks (if any)

\*\*End of Report\*\*

Lab Incharge

For Eco Laboratories & Consultants Pvt. Ltd.

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

Package 1 Hall	3/20:	Cons	ervation and a	adaptive	reuse of c	olonial	he	ritage in Kapurthal	la - Darbar
				Noi	se Quality				
H								Service Tax No. BPEPS969 PAN No. BPE	
	$\mathcal{D}$		ENVIRO					<b>FORIES</b>	an vi
K	¥)				CCREDITE		)		
6	PL	ot No. 6	7 1st Floor ILPL		icate No. T-		bad	S.A.S. Nagar (Mohali) P	b
E.T.L								lab72@yahoo.com	
Ref. No. :		******	6					Dated :9.8.)	06 2017
				TE	ST REPORT				
				16	JI ALI UAI				
	To M/s Rai	nutana (	Constructios Pvt. Ltd						
	Conseve	vatin and	d adaptive reuse of ge in Kapurthala(Pb						
	Contraction of the second s	an Bernard B	line in the second second second	,	Descent Ma		1.1	FTI /26 /2017 19 /202 B	al shirten
	and the second se	rt Date Ref. No	: 08.06.2017 : NIL		Report No. Type of Samp	le	1	ETL/26/2017-18/393-B Ambient Noise Level	-
	Samp	le I.D.	: ETL/05/2017-	18/393-B	Date of Monit	Date of Monitoring :		Monitoring 01.06.2017	1 · · · ·
	-	_		TECI	HNICAL DATA		-		The Shide
	Name	of Site		1	Darbar Hall I	apurthal:	a		
	Locati	ion of Mo	nitoring Station	1.1.1.1	Rear Side of	Darbar Ha	п		
	Instru	ment Us	ed for Monitoring	La China	Noise Level M	11-12			
	SR. NO.	LO	OCATION/AREA		SULTS A)LEQ	LIMITS dB(A) I		TEST METHOD	
				Day Time	53 dB (A)	55 dB	(A)	15:9989-1981	
	1	Rear S	iide of Darbar Hall					Reaff:2001	
	100	-		Night Time	42 dB (A)	45 dB	(A)		J. Atte
	Note	All Par	ameters are within	limit as prese	ribed by the Cl	CB Guide	lines	2010.	- Linker
5.								e used in part or full in any	
	1.	media w	ithout prior permissi	on.	r in the court of i	aw not can	14.04	e used in part of this in many	
			1 de	ch Laba					
			11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12		l		marker Ken	
This	Analysis Consent F	Report is	not Valic			AUTH		ZED SIGNATORY	
for	Board	upost		Mohall*			Tex	MESHWAR KUMAR Innical Manager Ann Tech Laboratories	
1			- ·		80 U.S.				
									1
									12 0 6

					Air Q	uality				
H								Service Tax No. BPEPS9693PS PAN No. BPEPS9		
ETL	Pla		62, 1st Floor, JLPL	(NAB Ce Industria	L ACC ertifica al Area,	te No. T-194 Sector 82, Airp	AB.) 7 ot Ro	ad, S.A.S. Nagar (Mohali) Pb.		
		Te	ele : 9463000081, I	Mob. 941	172-100	081, Email : env	ironte	chlab72@yahoo.com		
Ref. No. :								Dated :	29.1.7	
					TEST I	REPORT				
	Consevv	atin a	a Constructios Pvt. Lt nd adaptive reuse of age in Kapurthala(Pl							
	Report	Date	: 08.06.2017	-	Repor	t No.	:	ETL/26/2017-18/393-A		
	Your Re	and the second	: NIL	and the second		of Sample	1	Ambient Air Sample		
	Sample	I.D.	: ETL/05/2017-11	B/393-A		of Sampling	1	01.06.2017 to 02.06.2017		
						of Sample Receipt	_	03.06.2017 03.06.2017 to 08.06.2017		
		-			Date o	oftest	1	03.06.2017 10 08.06.2017		
	-				TECHNI	CAL DATA				
	1	Marrie	e of Site		1 Delinin	Darbar Ha	II Kan	rethala	440	
	1			-	-	CONCERNMENT.	1.1.1.1.1.1.1.1.1	nce area of Darbar Hall		
	2		tion of Sampling Statio		_					
	3		ument Used for Sampl	ing	-	Respirable Dust Sampler-I Ambient Air				
	4	100 CO. 100 CO.	ce of Sampling	a an Blam						
	5		perature of Sampling L	ocation			36°C			
	6	Envir	conmental Condition			Max temp. 40°C Min temp. 32°C				
								d direction west to east		
			P		_	1.0 LPM	uu wiii	runection west to cast		
	7		Rate of Sampling		_					
	8	1.1.1.1.1.1.1.1.1.1	Period for Sampling	-	_	1440 Minu 1.44 m <sup>3</sup>	1440 Minutes			
	9	volu	me of Air Sampled	_	_	1.44 m.				
			100 · · · · ·		RE	SULTS	10			
	S.N	0	PARAMETER (µg/m <sup>3</sup> )	RES	of the local division in which the local division in the	STANDARD (µg/m <sup>3</sup> )	TEST METHOD			
	1.		PM <sub>10</sub>	62		100.0		82(Pt-23):2006		
	2.		PM2.5	28	.9	60.0	100.007763	metric method and		
	_		20		-	00.0		Guidelines		
	3.		\$0 <sub>2</sub>	6. 22	and the second se	80.0		82(Pt-2):2001 82(Pt-6):2006		
	4.	All Do	NO <sub>2</sub> rameters are within	limit as n	rescribe				-	
	ND: N 1. 1 2.	ot Det Sample This re	actable	ed as evid	ence in t			be used in part or full in any		
fo	his Analysi or Consent he Board	s Repo Purpo:	rt is not Valid se of	ET	L Lorries		AU	THORIZED SIGNATORY RAMESHWAR KUMAR Technical Manager Environ Tech Laboratories		
		1		1 Avenue au						

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

#### **Noise Quality**

## Eco Laboratories & Consultants Pvt. Ltd.

L. LASSANZ LAS

NABL / MOEF / PPCB / HSPCB / BIS approved Laboratory ISO - 9001 : 2008, 14001:2004 OHSAS-18001:2007 CIN : U74140PB2011PTC034739

### **TEST REPORT**

restoring acc balance.

A B

CD

Industrial Area

**Commercial Area** 

Residential Area Silence Zone

Test	Report No. :EL260617EC003N-A	V.		EL-17-18/112-6A	Page No. 1/1			
Custo	mer	Punjab Heritage & Tourism Promotion Board Conservation of Adaptive Reuse of Town Hall Amritsar M/s Construction Technique						
Work	Order No. & Date	PHTB/IC	IPT/2016/5210-3	2 dt.: 03/01/17				
Туре	of Sample	Ambient	Noise					
Mode	of Collection of Sample	Samplin	g by laboratory					
Date	of Sampling	26/06/20	17					
Samp	ling Location	Construe	tion Site					
Samp	ling Protocol	IS: 9989	1981 R-2002 and	d as per customers requirements				
Date	of Receipt of Sample	27/06/20	17					
Period	d of Analysis	27/06/20	17 to 30/06/2017	Here and the second				
Date	of Reporting	30/06/2017						
Testin	g Protocol	IS 9989: 1981 R-2002						
Enviro	onmental Condition	Clear Sky						
			RESI	JLTS				
S.No.	Test Parameter	Units	Result	Method	+			
1	Day Leg dB (A)	dB (A)	60.8	IS 9989 1981 R-2002				
2	Night Leq dB (A)	dB (A)	49.6	IS 9989 1981 R-2002				
Remark	ks (if any) Amblent Noise Quality 5	Standards (CP	CB, 2009) are give	n for reference				
		**End	of Report**					
				For Eco Laboratories & Consu	Itants Pvt. Ltd.			
R	4				tau GIWE			
Lab In	icharge				anzed Signatory			
		Ambient N	oise Quality Star	ndards (CPCB,2009)	at the second			
-	Area Category of Area Limit dB (A) Leg							

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

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PTO

#### Air Quality



### Eco Laboratories & Consultants Pvt. Ltd.



NABL / MOEF / PPCB / HSPCB / BIS approved Laboratory ISO - 9001 : 2008, 14001:2004 OHSAS-18001:2007 CIN : U74140PB2011PTC034739

**TEST REPORT** 

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

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

\*\*End of Report\*\*

Lab Incharge

For Eco Laboratories & Consultants Pvt. Ltd. Authorized Signatory

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