

## **Environmental Monitoring Report**

Project Number: 40648-034 March 2017

Period: July 2016 – December 2016

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

Submitted by

Project Management Unit, Punjab Heritage and Tourism Board, Chandigarh

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No. PHTPB/IDIPT/2017/6310-15

Dated: 06/3/17

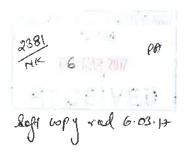
Subject: Loan 3223 IND: Bi-annual Environment Monitoring Progress Report (BEMR) for Tranche-3 for the bi-annual July, 2016 to December, 2016

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

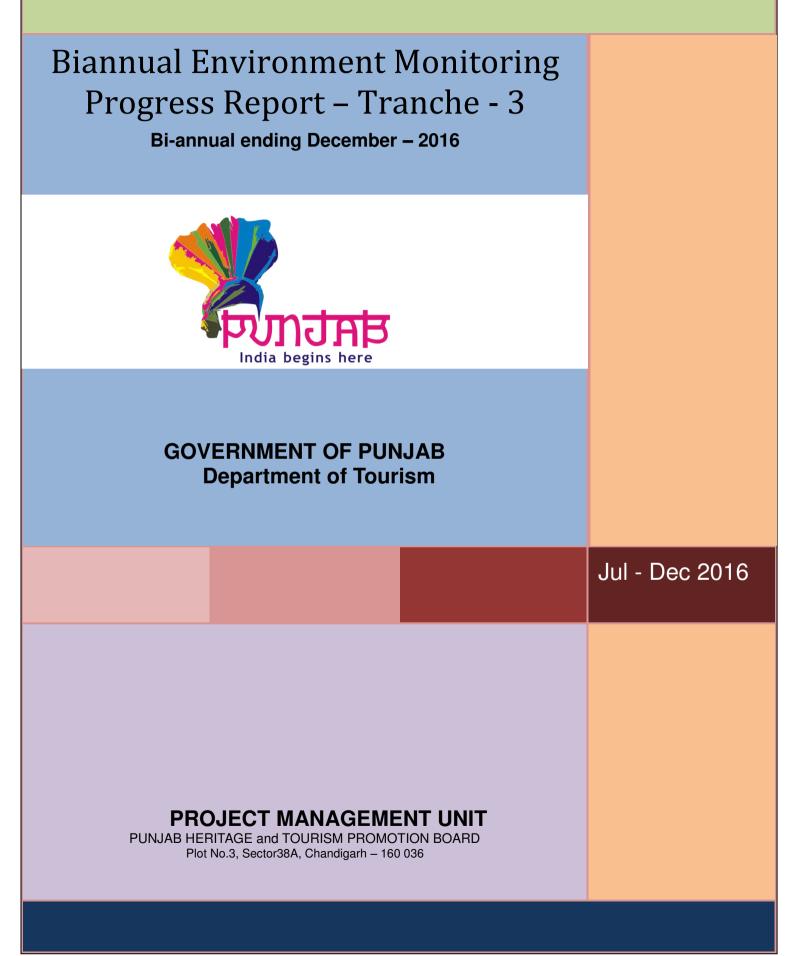
Addl. Project Director

CC:

- 1. PA to PD, IDIPT-PB
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- 4. TL-PMC, IDIPT-PB
- 5. ESS-IDIPT-PB



## INFRASTRUCTURE DEVELOPMENT INVESTMENT PROGRAM FOR TOURISM (IDIPT)



Department of Tourism GOVERNMENT OF PUNJAB



## INFRASTRUCTURE DEVELOPMENT INVESTMENT PROGRAM FOR TOURISM (IDIPT)

### ADB Loan No. 3223-IND

## **BIANNUAL ENVIRONMENT MONITORING PROGRESS REPORT**

Tranche - 3

For

**Bi-Annual Ending December – 2016** 

## **Project Management Unit**

INFRASTRUCTURE DEVELOPMENT INVESTMENT PROGRAMME FOR TOURISM

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



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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:

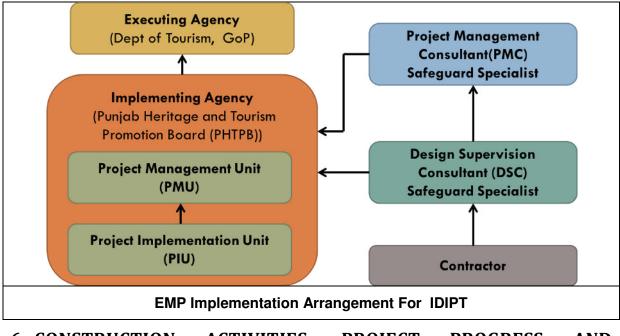
- To provide a database against which short or long term environmental impacts of the sub projects can be determined;
- To provide an early indication, environmental control measures or practices should not fail to achieve the acceptable standards;
- To monitor the performance of the sub projects and 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 Rupnagar. These PIU's will look into the progress and coordination of day to day construction works with the assistance from respective DSC teams.
- Design Supervision Consultants (DSC), will prepare the detailed project report (DPR) of the subprojects and will carry out construction supervision during project implementation. Their responsibility will also include updating the IEE based on detailed design and EMP implementation supervision;
- The Contractor will be responsible for execution of all construction works. The contractor will work under the guidance of the PIUs and DSCs in Amritsar and Rupnagar. The EMP mitigation measures relevant to construction phase will also be implemented by the contractor.



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

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



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

#### a. Implementation status:

S. No.	Sub Project Component/ Packages	Details of work under Package	Commencement of Civil Works	Expected date of Completion	Physical Progress till date	Type of Work presently Conducted	Remarks
1	Package 3- 12/02						
	Lot- 1:Conservation of Aam Khas Bagh in Fatehgarh Sahib, Patiala	<ul> <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 guard rooms for security purpose.</li> <li>Adaptive reuse of structure and provision of interpretation center</li> </ul>	25 July 2015	24 Jan 2017	30.0%	<ul> <li>Plaster work is under progress for inner and outer side of Naughara.</li> <li>Loii work on external walls at Mehtabi Bagh is under progress.</li> <li>West side boundary wall designer plaster work under progress.</li> </ul>	The contractor is advised to expedite the work as there is a slow progress in work

<b>Lot-2</b> : Conservation of Tombs and Rauza Sharif in Fatehgarh Sahib	<ul> <li>and craft centre at Maulsari</li> <li>Provision of tourist reception centre at Maulsari.</li> <li>Reconstruction of original brick work.</li> <li>Conservation and Restoration of six heritage buildings including interior decorative ceilings.</li> <li>Construction of toilet complexes and baths at Dargah complex</li> <li>Paving of walkway towards guest rooms &amp; site development works.</li> <li>Provision of internal signage (having uniformity in design) for the Dargah complex</li> </ul>	30 Oct 2015	2017	55.0%	<ul> <li>Toilets</li> <li>block</li> <li>plumbing</li> <li>works and</li> <li>electrical</li> <li>works under</li> <li>progress.</li> <li>Pavers</li> <li>block fixing is</li> <li>under</li> <li>progress.</li> <li>Marble</li> <li>cleaning</li> <li>work is under</li> <li>progress</li> </ul>	The contractor is advised to expedite the work as there is a slow progress in work
Lot- 2:Conservation of Tomb of, Raffudin	<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 integrable</li> </ul>	30 Oct 2015	29 Apr 2017	16.0%	<ul> <li>Earth Retaining wall is under progress.</li> <li>Planter excavation work and PCC work started at Tomb of Raffudin is under progress.</li> </ul>	The contractor is advised to expedite the work as there is a slow progress in work
Lot- 2:Conservation of Tomb of Alfasani	tangible and intangible aspects of the precinct • Landscaping Site Development	30 Oct 2015	29 Apr 2017	20.0%	<ul> <li>Inner side Consolidation work under progress.</li> <li>Repair and brick work at Tomb of Alfsani is under progress</li> </ul>	The contractor is advised to expedite the work as there is a slow progress in work



Lot-	30	29 Apr	30.0%	Excavation	The
2:Conservation	Oct	2017		of drain work	contractor
of Tomb of Bibi	2015			under	is advised
Тај				progress in	to
				outer side.	expedite
				<ul> <li>Pathway</li> </ul>	the work
				work under	as there
				progress.	is a slow
				<ul> <li>Terrace</li> </ul>	progress
				Consolidation	in work
				work under	
				progress.	
				<ul> <li>Filter</li> </ul>	
				media work	
				at Bibi Taj	
				Tomb is	
				under	
				progress	

## 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	egulations	
		Tree cutting permissions	Tree cutting is not envisaged and hence tree cutting permission is not required
		Sourcing of construction materials (quarry and borrow materials)	The quantity of the construction materials required for this sub project is very less and it has been sourced from local authorized (licensed) vendors.
		The EIA notification, 2006 (and its subsequent amendments)	Not applicable (not in the list of projects, which requires Environmental Clearance)
		Water (Prevention and control of pollution) Act, 1974	Not applicable, since there is no requirement for setting up of hot mix plants, wet mix plants, stone



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

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

Package no	Environmental Safeguard related Loan Covenants	Compliance Status
Package 3-12/02:Imperial Highway HeritageConservation and VisitorFacility Development.Lot-1: Conservation of AamKhas Bagh in FatehgarhSahibLot-2:(i) Conservation of Tombsand Rauza Sharif inFatehgarh Sahib(ii) Conservation of Tombof, Raffudin(iii) Conservation of Tomb ofAlfasani(iv) Conservation of Tomb ofBibi Taj	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, this is reported to ADB, and remedial actions are taken to mitigate the relevant impacts in consultation with the affected persons and ADB;	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
	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	
	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
2	Description of proposed improvements	Conservation works including • Vegetation clearance • Consolidation and reconstruction of missing brick masonry	Conservation of Tombs and Rauza Sharif in Fatehgarh Sahib • Conservation and Restoration of six heritage buildings	<ul> <li>Adopting decay mechanisms in the buildings and precinct components</li> <li>Forming/ making the missing damaged elements/ features that forms</li> </ul>

S No	Subproject Selection Criteria	Lot-1 Conservation of Aam Khas Bagh in Fatehgarh Sahib	Lot – 2.Conservation of Tombs and Rauza Sharif in Fatehgarh Sahib	Lot – 2 (i) Conservation of Tomb of, Raffudin (ii) Conservation of Tomb of Alfasani (iii) Conservation of Tomb of Bibi Taj
		<ul> <li>Consolidation of lime concrete flooring</li> <li>Landscaping and site development</li> <li>Plastering the masonry surface with lime plaster.</li> <li>Repairing the terracing, sloping chajjas and brick brackets</li> <li>Provision of boundary wall.</li> <li>Provision of the entrance gate and guard rooms for security purpose.</li> <li>Adaptive reuse of structure and provision of interpretation center and craft centre</li> <li>Provision of tourist reception centre.</li> <li>Reconstruction of original brick work.</li> </ul>	<ul> <li>Construction of toilet complexes</li> <li>Paving of walkway</li> <li>Provision of internal signage</li> </ul>	<ul> <li>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	Careful selection of material, the result of interventions is unobtrusive and will be integral part of the	Careful selection of material, the result of interventions is unobtrusive and will be integral part of the
	Compliance	overall ambience.	overall ambience.	overall ambience.

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

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



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

#### f. Environmental Quality Monitoring

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

Location	Value	Standards
(i) Conservation of Tomb of	41.9 dB (A)	CPCB noise
Alfasani		standard for
		commercial area is
(ii) Conservation of Tomb of	42.0 dB (A)	65 dB (A) for day
Bibi Taj		time and 55 dB (A)
		for night time.

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

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

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



Location	Parameter	Value	Standard value
	Carbon monoxide, mg/m <sup>3</sup>	<1.5 The observed AAQ values are within the regulatory standards indicating the construction activities does not have any impact on the existing air quality.	

#### g. Grievance Record and Action Taken

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



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

#### a. Implementation status

S No	Sub Project Component/ Packages	Details of work under Package	Commencem ent of Civil Works	Expected date of Completion	Physical Progress till date	Type of Work presently Conducted	Remarks
1.	Package 4/3: Eco- tourism Developme nt at Ropar and Harike Wetlands (Civil Works)	<ul> <li>At Harike Wetland</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> At Ropar Wetland <ul> <li>Provision of bird watch towers and bird hides</li> <li>Provision of nature trail of about 800 m</li> <li>Provision of</li> </ul>	19 Aug 2015	18 Feb 2017	25.0%	<ul> <li>Excavation work of nose point is under progress.</li> <li>Stone wall work of nose point jetty is under progress.</li> <li>Brick bat laying on flooring of LMB FD post near jetty point is under progress.</li> <li>Rain water slot of LMB road right side is under progress.</li> <li>Runder progress.</li> <li>Pile work is under progress.</li> <li>Step work under progress of interpretation center.</li> </ul>	PC of the road work cannot be taken due to weather; Piling work has been started in board walk



<ul> <li>public amenities</li> <li>Upgrade of existing interpretation center</li> <li>Provision of sign/ information boards of uniform design</li> </ul>		<ul> <li>Soil filling work under progress in bus parking area.</li> <li>Brick work of Interpretation (existing building) Center is under progress.</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)	75%	<ul> <li>Culvert work Completed</li> <li>Work of strengthening of shoulder is under progress.</li> </ul>

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

Package No	Sub Project	Clearance/	Current Status
Fackage NO			Current Status
	Component/Packages	Approval required	
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	gulations	
Wetlands		Tree cutting	Tree cutting is not
(Civil Works)		permissions	envisaged and hence tree
		•	cutting permission is not
			required
		Sourcing of	The quantity of the
		construction	construction materials
		materials (quarry	required for this sub
		and borrow	project is very less and it
		materials)	has been sourced from
		materialey	local authorized (licensed)
			vendors.
		The EIA notification,	Not applicable (not in the
		2006 (and its	list of projects, which
		subsequent	requires Environmental
		•	•
		amendments)	Clearance)
		Water (Prevention	Not applicable, since there
		and control of	are no requirement for



Package No	Sub Project	Clearance/	Current Status
-	Component/Packages	Approval required	
		pollution) Act, 1974 and Air (prevention and control of pollution) Act, 1981 The Wildlife Protection Act, 1972, amended in 2003 and 2006	setting up of hot mix plants, wet mix plants, stone crushers and diesel generators. 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 4</b> )
		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 on activities within Wetlands) of the wetland rules, 2010, this subproject mandates clearance from Chief Wildlife Warden of Punjab and accordingly the same has been obtained (Refer <b>Annexure 4</b> )

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

Package	Environmental Safeguard related Loan Covenants	Compliance Status
Package 4/3: Eco- tourism Development at Ropar and Harike Wetlands (Civil Works)	The Project is undertaken, and the Project facilities are designed, constructed, implemented, operated, and maintained, in accordance with the Borrower's applicable laws and regulations; ADB's Safeguard Policy Statement (2009) and the EARF;	All ADB safeguards are being followed.



Package	Environmental Safeguard related Loan Covenants	Compliance Status
	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
	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 the report will be
d. Compliance et	Reports on the implementation of the IEEs and the EMPs are submitted to ADB on a biannual basis.	report will be submitted to ADB on bi-annual basis.

d. Compliance status with Subproject Selection Criteria:

S. No.	Subproject Criteria	Selection	<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 improvements	proposed	<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</li> </ul>



S. No.	Subproject Selection Criteria	<b>Package 4/3:</b> Eco-tourism Development at Ropar and Harike Wetlands (Civil Works)
		an interpretation center.
		<ul> <li>Provision of boating facilities</li> </ul>
		<ul> <li>Landscaping outside core protected area</li> </ul>
		At Ropar Wetland
		<ul> <li>Provision of bird watch towers and bird hides</li> </ul>
		Provision of nature trail of about 800 m
		Provision of public amenities
		Upgrade of existing interpretation center
		<ul> <li>Provision of sign/ information boards of uniform design</li> </ul>
		Provision of parking facilities Ropar Wetland
		<u>Connectivity</u>
		<ul> <li>Strengthening is proposed at 0/00 km to 0/945 km</li> </ul>
		(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)
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	Constructionworkareaisbeingbarricadedandseparatedfromtourists	Satisfactory	Continuous monitoring is required.
4. Consideration to be given for material storage at construction sites.		Satisfactory	Material is being properly stacked, covered and stored.
5. Safe disposal of extraneous wastes to be ensured in the pre- identified disposal locations.	Work being carried out as per mitigation measures	Satisfactory	All waste material at sites will be properly disposed.
6. The contractor to take precaution to reduce the level of dust at construction sites.	Sprinkling of water is being done at regular intervals. Construction material is covered.	Satisfactory	All construction material to be covered properly from all the sides.
7. The waste generated will be reused in construction activities,	As per the mitigation measures, the generated	Satisfactory	Continuous monitoring is required

Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
either as a fill material or based on its suitability of reuse to maximum extent.	construction waste has been utilised to the extent possible		
8. All workers employed on mixing asphaltic material, cement, lime mortars, concrete etc., will be provided with protective footwear and protective goggles.	All workers are being provided with PPEs to avoid any safety and health hazards.	Satisfactory (Photographs are attached as <b>Annexure</b> -2).	Continuous monitoring is required
9.The Contractor will, at his own expense, conform to all anti- malaria instructions given to him by the Engineer	Work being carried out as per plan	Satisfactory	Contractors have been instructed to implement all measures to avoid mosquito breeding in the labour camps.

#### f. Environmental Quality Monitoring

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

Location	Value	Standards
In the vicinity of the	The observed value of 48.0 dB (A) is	CPCB noise
construction site, at the	found to be less than the prescribed	standard for silent
location advised by the	limits in comparison with the CPCB	zone is 50 dB (A) for
Environment Specialist of	Noise Quality Standard for Silent zone.	day time and 40 dB
the DSC	-	(A) for night time.

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

Location	Parameter	Value	Standard value
In the vicinity	SPM, μg/m³	70.4	100.0
of the	Oxides of Sulphur, µg/m <sup>3</sup>	3.6	80.0
construction	Oxides of Nitrogen, µg/m <sup>3</sup>	1.8	80.0
site, at the	Carbon monoxide, mg/m <sup>3</sup>	Not detected	
location			2.0
advised by the		The observed AAQ values	
Environment		are within the regulatory	
Specialist of		standards indicating the	
the DSC		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		Type of Work presently Conducted	Remarks
1.	Package 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	33.0%	<ul> <li>Food Plaza fabrication work under progress.</li> <li>Food plaza Plumbing work under progress.</li> <li>Food plaza terrace seating work under progress.</li> <li>Interpretation centre plaster work under progress.</li> <li>Interpretation centre vitrified flooring tile work under progress.</li> <li>Lake toe wall work is under progress.</li> <li>Entry gate fabrication work is under progress</li> <li>Visitor shelter kota stone work is under progress.</li> </ul>	Contractor is advised to expedite the work progress



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

Package Sub Project		Clearance/ Approval	Current Status
No Component/Packages		required	
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 Envi	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, 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 6</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:

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



S. No.	Environmental Safeguard related Loan Covenants	Compliance Status
of Wildlife Zoo	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 ;	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
	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
	Reports on the implementation of the IEEs and the EMPs are submitted to ADB on a quarterly basis.	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	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> <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.



Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
7. The waste generated will be reused in construction activities, either as a fill material or based on its suitability of reuse to maximum extent.	As per the mitigation measures, the generated construction waste has been utilised to the extent possible	Satisfactory	Continuous monitoring is required.
8. All workers employed on mixing asphaltic material, cement, lime mortars, concrete etc., will be provided with protective footwear and protective goggles.	All workers are being provided with PPEs to avoid any safety and health hazards.	Satisfactory	Continuous monitoring will be done to ensure all the workers are using PPE's.
9.The Contractor will, at his own expense, conform to all anti- malaria instructions given to him by the Engineer	Work being carried out as per plan	Satisfactory	Contractor has been instructed to implement all measures to avoid any mosquito breeding in the labour camps.

#### f. Environmental Quality Monitoring

#### Noise (Analysis results are enclosed in the Annexure - 7)

Location	Value	Standards
In the vicinity of the	The observed value of 50.0 dB (A) is	CPCB noise standard for
construction site, at	found to be less than the prescribed	commercial area is 65
the location advised	limits in comparison with the CPCB	dB(A) for day time and 55
by the Environment	Noise Quality Standard for	dB (A) for night time.
Specialist of the DSC	commercial area/ zone.	

#### Ambient Air Monitoring (Analysis results are enclosed in the Annexure - 7)

Location	Parameter	Value	Standard
In the vicinity	SPM,μg/m³	88.3	100.0
of the	Oxides of Sulphur, µg/m <sup>3</sup>	2.4	80.0
construction	Oxides of Nitrogen, µg/m <sup>3</sup>	0.15	80.0
site, at the	Carbon monoxide, mg/m <sup>3</sup>	Not detected	2.0
location			
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 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 under Package	Commencement of Civil Works	Expected date of Completion	Physical Progress till date	Type of Work presently Conducted	Remarks
	Package 6/5: Conservation of Main Gate of Qila Androon, and Art Conservation works with Adaptive Reuse, Landscaping and utility works at Qila Mubarak.	<ul> <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 QilaAndroon and outer wall for museum.</li> <li>Landscaping and Site Development: <ul> <li>Landscaping and Site development</li> <li>f 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 ourism development and management.</li> </ul>	16 Sept 2015	15 Mar 2017	55.0%	QILA MUBARAK PATIALA JALAU KHANA • Room F-2, F-4 internal plaster finishing, internal cornice construction work. • Terrace stair case head room wall brick work. • North and East side varandah parapet wall plaster finishing, moulding work. • Jalau Khana ground floor G5 room arches crack stitching work with cem tie ANDROON MAHAL • Androon facade Stucco/repairing work, LHS and middle top dome stucco/repairing, chhajja construction work. • Androon mahal room no G3B internal plaster is in progress. <u>RANG AND SHEESH MAHAL</u>	





	<ul> <li>Rang mahal north side wall plaster work, dome construction, door frame fixing work.</li> <li>Room no G-12, G-23 internal plastering work in progress.</li> <li>Sheesh mahal central courtyard parapet wall plastering work in progress.</li> <li>Sheesh mahal central courtyard first floor outer wall face</li> </ul>	
	wall face plastering 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 Envi	ronmental Regulations	·	
		Tree cutting permissions	Tree cutting is not envisaged and hence tree cutting permission is not required.
		Sourcing of construction materials (quarry and borrow materials)	The quantity of the construction materials required for this sub project is very less and it has been sourced from local authorized (licensed) vendors.
		The EIA notification, 2006 (and its subsequent amendments)	Not applicable (not in the list of projects, which requires Environmental Clearance)
		Water (Prevention and control of pollution) Act, 1974 and Air (prevention and control	Not applicable, since there are no requirement for setting up of hot mix plants, wet mix plants,



Package No	Sub Project Component/Packages	Clearance/ Approval required	Current Status
		of pollution) Act, 1981	stone crushers and diesel generators.
		The Wildlife Protection Act, 1972, amended in 2003 and 2006	Not applicable, as there are no wildlife protected areas located within or in the surroundings of the subproject site
		The Forest Conservation Act, 1980 and its subsequent amendments	Not applicable, as there are no forest areas located within or in the surroundings of the subproject site
		The Ancient Monuments and Archaeological Sites and Remains Act, 1958, and the rules, 1959	The subproject site (Qila Mubarak) is a state protected monument and hence NoC/ clearance from Cultural Affairs, Archaeology and
			Museums, Punjab has been obtained (Refer <b>Annexure 8</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;	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
	Any changes to the location,	

Package no.	Environmental Safeguard related Loan Covenants	Compliance Status
	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	
	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	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>



S. No.	Subproject Selection Criteria	Package 6/5: Patiala Heritage Conservation and Tourism Development Project (Qila Mubarak)
3.	Design Criteria	Steps to minimize the environmental impacts due to proposed conservation measures at Qila Mubarak.

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

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



#### f. Environmental Quality Monitoring

#### Noise (Analysis results are enclosed in the Annexure - 9)

	Location	Value	Standards
1.	At construction site	60 dB(A)	CPCB noise
2.	At Qila Mubarak	50 dB(A)	standard for
		The observed values are found to be less	commercial area is
		than the prescribed limits as stipulated in the	65 dB(A) for
		CPCB Noise Quality Standard for	day time and 55 dB
		commercial area/ zone	(A) for night time

#### Ambient Air Monitoring (Analysis results are enclosed in the Annexure - 9)

Location	Parameter	Value	Standard
In the vicinity	PM <sub>10</sub> ,μg/m <sup>3</sup>	90.0	100.0
of the	PM <sub>2.5</sub> , μg/m <sup>3</sup>	45.0	60.0
construction	Oxides of Sulphur, µg/m <sup>3</sup>	9.0	80.0
site, at the	Oxides of Nitrogen, µg/m <sup>3</sup>	17.7	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	Expected date of Completion	Physical Progress till date	Type of Work presently Conducted	Remarks
1	Package 7/7: Establishment of Tourism Facilities and Infrastructure showcasing of Sikh Culture, Chamkaur Sahib(Civil Works)	<ul> <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 (Exten ded upto 30 <sup>th</sup> June, 2017)	20.0%	<ul> <li>Kiosk brick work under progress.</li> <li>Retaining wall first lift cast has been completed, second shuttering and reinforcement is under progress</li> <li>Landscaping is under progress.</li> <li>Bus parking wall first lift cast second lift shuttering under progress.</li> <li>Flooring finishing work under progress of open air theatre.</li> <li>Red stone flooring replaced in the open air theatre seating area.</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	Clearance/	Current Status
	Component/Packages	Approval required	
Package 7/7:	<ul> <li>Construction of TRC</li> </ul>	Disposal plan for	Disposal of extraneous
Establishment	(Tourist Reception	extraneous material	material is as per the plan.
of Tourism	Centre)	is required	
Facilities and	<ul> <li>Provision of garden</li> </ul>		
Infrastructure	lighting and high		



Package No	Sub Project	Clearance/	Current Status
	Component/Packages	Approval required	
showcasing of Sikh Culture, Chamkaur Sahib (Civil Works)	<ul> <li>mast lighting.</li> <li>Construction of the main entrance gate</li> <li>Provision of visitor facilities like toilets,</li> </ul>		
	drinking water facilities etc Fitting and fixtures Display materials Provision of services		
	such as electrical,		
Other Environ	plumbing, HVAC etc		
	mental Regulations	Trop outting	Tree cutting is not
		Tree cutting permissions	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 The Wildlife	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
		Protection Act, 1972, amended in 2003 and 2006	no ecological sensitive areas located within or in the surroundings of the subproject site
		The Forest Conservation Act, 1980 and its subsequent	Not applicable, as there are no forest areas located within or in the surroundings of the
		amendments The Ancient	subproject site Not applicable, the
		Monuments and Archaeological Sites and Remains Act, 1958, and the rules, 1959	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	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.
Culture, Chamkaur Sahib (Civil Works)	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.
	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 Reports on the implementation of the IEEs	Regular environmental monitoring is being performed and the report will be submitted to ADB
	and the EMPs are submitted to ADB on a biannual basis.	on bi-annual basis.

S No	Subproject	Package 7/7: Establishment of Tourism Facilities and
	Selection	Infrastructure showcasing of Sikh Culture, Chamkaur Sahib (Civil
	Criteria	Works)



S No	Subproject	Package 7/7: Establishment of Tourism Facilities and			
	Selection	Infrastructure showcasing of Sikh Culture, Chamkaur Sahib (Civil			
	Criteria	Works)			
1	Site Description	Chamkaur Sahib is a sub divisional town in the district of Rupnagar Punjab. Situated on the banks of the Sirhind Canal. The subproject area is located in Rupnagar city urban and rural areas which were converted into urban use for many years ago, and there is no natural habitat left at these sites. The sites are not within or adjacent to any protected areas			
2	Description of proposed improvements	<ul> <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	<ul> <li>Civil structure (parking and TRC centre inclusive of ramps, staircases and toilets).</li> <li>Landscape – Hardscape –Pavement, signage, lighting, bollards, chain barriers; Softscape – plant material</li> <li>Infrastructure – water supply, sewerage, firefighting, storm water, electrical, dustbins and drinking water facility.</li> </ul>			

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

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



Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
7. The contractor to take precaution to reduce the level of dust at construction sites.	Sprinkling of water and covering of loose construction material is being taken up.	Satisfactory	Continuous monitoring is required
8. All vehicles, equipments and machinery used for construction to be regularly maintained.	Work being carried out as per plan	Satisfactory	Continuous monitoring is required
8. All workers employed on mixing asphaltic material, cement, lime mortars, concrete etc., will be provided with protective footwear and protective goggles.	All workers are being provided with PPEs to avoid any safety and health hazards.	Satisfactory (Photographs are attached as <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 are enclosed in the Annexure - 10)

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

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

Location	Parameter	Value	Standard
In the vicinity	PM <sub>10</sub> , μg/m <sup>3</sup>	82.1	100.0
of the	PM <sub>2.5</sub> , μg/m <sup>3</sup>	40.2	60.0
construction	Oxides of Sulphur, µg/m <sup>3</sup>	3.0	80.0
site, at the	Oxides of Nitrogen, µg/m <sup>3</sup>	5.0	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 related to	Received through	Description	Status
	Package 7/7: Establishment of Tourism Facilities and Infrastructure showcasing of Sikh Culture, Chamkaur Sahib (Civil Works)	None	NA	NA	No Grievances have been recorded so far.



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

### a. Implementation status:

S. No.	Sub Project Component/ Packages	Details of work under Package	Commence ment of Civil Works	Expected date of Completion	Physical Progress till date	Type of Work presently Conducted	Remarks
1	Lot 1 - Conservation at Gobindgarh Fort Structures	Conservatio n and structural stabilization of the fort walls, bastions and moat	08 Feb 2016	07 Aug 2017	15.0%	• Removal/ clearing of wild vegetation is being carried out that has grown on the fort wall	Work is in progress.
2	Lot 2 - Conservation at Gobindgarh Fort Structures	Conservatio	10 Nov 2015	27 Jan 2017	55.0%	<ul> <li>Dismantling of damaged bricks and consolidation of brick work in progress</li> <li>Lime Plaster is in progress</li> <li>Removal of extra earth in progress</li> <li>Pitching wall is in progress</li> <li>Moat Area outer/ inner wall plaster in progress</li> <li>Fresco room area in progress</li> <li>Inner Rampart flooring preparation in progress</li> <li>Adjoining Rampart flooring, sub base preparation in progress</li> <li>Brick flooring work is in progress</li> </ul>	Work is in progress. The left out works are Leveling the moat area to the center drain, Landscaping works & Pathway works

## b. Compliance status with Government Environmental Regulations:

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



Package No	Sub Project	Clearance/ Approval	Current Status
-	Component/Packages	required	
at	Other Environmental R		
Gobindgarh Fort		The EIA notification, 2006 (and its subsequent amendments)	Not applicable (not in the list of projects, which requires Environmental Clearance)
		Tree cutting permissions	Tree cutting is not envisaged and hence tree cutting permission is not required.
		Sourcing of construction materials (quarry and borrow materials)	The quantity of the construction materials required for this sub project is very less and it has been sourced from local authorized (licensed) vendors.
		Water (Prevention and control of pollution) Act, 1974 and Air (prevention and control of pollution) Act, 1981	Not applicable, since there are no requirement for setting up of hot mix plants, wet mix plants and diesel generators.
		The Wildlife Protection Act, 1972, amended in 2003 and 2006	Not applicable, as there are no ecological sensitive areas located within or in the surroundings of the subproject site
		The Forest Conservation Act, 1980 and its subsequent amendments	Not applicable, as there are no forest areas located within or in the surroundings of the subproject site
		The Ancient Monuments and Archaeological Sites and Remains Act, 1958, and the rules, 1959	Not applicable the monument is not under the ambit of this Act

# c. Compliance status with Loan Covenant:

S. No.	Environmental Safeguard related Loan Covenants	Compliance Status
Package8/9:StructuresConservationCobindgarhFort	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 ;	IEE and EMP are being implemented in



S. No.	Environmental Safeguard related Loan Covenants	Compliance Status
	In the event that any unanticipated	accordance with the terms of ADB.
	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 in the location, land alignment, or environmental impacts on account of detailed designs of the Project facilities are mutually agreed between the Borrower and ADB, and are consistent with the eligibility criteria set forth in Schedule 4 to the FFA;	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	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	Designs proposed are in accordance to	Satisfactory	Exposed steel and concrete is being



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

## f. Environmental Quality Monitoring

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

Location	Value	Standards
In the vicinity of the	The observed value of 61.7 dB (A)	CPCB noise
construction site, at the	is found to be less than the	standard for
location advised by the	prescribed limits in comparison	commercial area is
Environment Specialist of the	with the CPCB Noise Quality	65 dB (A) for day
DSC	Standard for commercial area/	time and 55 dB (A)
	zone.	for night time.



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

Location	Parameter	Value	Standard
In the vicinity of the	PM <sub>10</sub> ,µg/m <sup>3</sup>	71.0	100.0
construction site, at	PM <sub>2.5</sub> , μg/m <sup>3</sup>	54.0	60.0
the location advised	Oxides of Sulphur, µg/m <sup>3</sup>	16.0	80.0
by the Environment	Oxides of Nitrogen,µg/m <sup>3</sup>	21.0	80.0
Specialist of the	Carbon monoxide mg/m <sup>3</sup>	Not detected	2.0
DSC			
		The observed AAQ	
		values are within the	
		regulatory standards	
		indicating the construction	
		activities does not have	
		any impact on the existing	
		air quality.	

### g. Grievance Record and Action Taken

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



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

### a. Implementation status

S. No.	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 (Exten ded upto 30 <sup>th</sup> June, 2017)	75%	<ul> <li>Constructi on of drain</li> <li>Constructi on of culverts</li> <li>Strengthe ning of the existing road</li> </ul>	Recommendat ions of the Road experts of PMC & DSC have been forwarded to contractor to rectify the defects in road works

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

Package No	Sub 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> <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</li> </ul>	Disposal plan for extraneous material is required. Other Environmental I	Disposal of extraneous material is as per the plan.
		Tree cutting permissions	Tree cutting is not envisaged and hence the tree cutting permission is not required.
		Sourcing of construction materials (quarry and borrow materials)	The quantity of the construction materials required for this sub project is very less and it has been sourced from



Package No		Project	Clearance/ Approval	Current Status
	Component/Packages		required	
	footpaths			local authorized
				(licensed)vendors
			The EIA notification,	Not applicable (not in
			2006 (and its	the list of projects,
			subsequent	which requires
			amendments)	Environmental
				Clearance)
			Water (Prevention and	Not applicable, since
			control of pollution)	there are no
			Act, 1974 and Air	requirement for
			(prevention and	setting up of hot mix
			control of pollution)	plants, wet mix
			Act, 1981	plants, stone
				crushers and diesel
		-		generators.
			The Wildlife Protection	Not applicable, as
			Act, 1972, amended in 2003 and 2006	there are no ecological sensitive
			2003 and 2000	areas located within
				or in the
				surroundings of the
				subproject site.
			The Forest	Not applicable, as
			Conservation Act,	there are no forest
			1980 and its	areas located within
			subsequent	or in the
			amendments	surroundings of the
				project site.
		ľ	The Ancient	Not applicable, as
			Monuments and	there are no
			Archaeological Sites	monuments located
			and Remains Act,	within or in the
			1958, and the rules,	vicinity of the
			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.
	In the event that any unanticipated	No unanticipated



Package no.	Safeguard related Loan Covenants	Compliance Status
	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;	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 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	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.		
		a with EMMD as new IEE/EMD few semewate Deckewses		

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

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



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

#### f. Environmental Quality Monitoring

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

### g. Grievance Record and Action Taken

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



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

### a. Implementation status

S. No.	Sub Project Component/ Packages	Details of work under Package	Commence ment of Civil Works	Expected date of Completion	Physical Progress till date	Type of Work presently Conducted	Remarks
1.	Package 13/20: Conservation and adaptive reuse of colonial heritage in Kapurthala - Darbar Hall	Conservation and restoration of the Central building which includes • Removal of vegetation, repair works • Reconstructio n of fallen roofs • Re-plastering the building. • Provision of Services such as Electrical, Plumbing, Firefighting, HVAC etc	25 July 2015	24 Jan 2017	14.0%	<ul> <li>Scrapping of old paint</li> <li>Ceiling paint</li> <li>Consolidatio n of brick work</li> <li>G.I sheet for roof</li> <li>Roofing, Painting &amp; Testing</li> <li>Plumbing of internal toilets</li> </ul>	The project completion time is likely to be extended; meanwhile the Contractor has been advised to increase the progress of work by deploying more labours.

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

Package No	Sub Project	Clearance/ Approval	Current Status
	Component/Packages	required	
Package 13/20: Conservation and adaptive reuse of	Conservation and restoration of the Central building which includes • Removal of vegetation, repair works	Disposal plan for extraneous material is required.	Disposal of extraneous material is as per the plan.
colonial heritage in Kapurthala - Darbar Hall	<ul> <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 I Tree cutting permissions Sourcing of	Tree cutting is not envisaged and hence tree cutting permission is not required. The quantity of
		construction materials (quarry and borrow materials)	the construction materials required for this sub project is



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

## c. Compliance status with Loan Covenant:

Package no	Environmental Safeguard related Loan Covenants	Compliance Status
Package 13/20: Conservation and adaptive reuse of colonial heritage in Kapurthala - Darbar Hall	The Project is undertaken, and the Project facilities are designed, constructed, implemented, operated, and	All ADB safeguards are being followed.



Package no	Environmental Safeguard related Loan Covenants	Compliance Status
	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;	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.
	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.



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.	

## d. Compliance status with Subproject Selection Criteria:

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

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



Mitigation Measures	Compliance	Remarks	Follow up Action Proposed
mortars, concrete etc., will be provided with protective footwear and protective goggles.		as Annexure -2).	PPE's.
9.The Contractor will, at his own expense, conform to all anti- malaria instructions given to him by the Engineer	Work being carried out as per plan	Satisfactory	Contractors have been instructed to implement all measures to avoid any mosquito breeding in the labour camps.

### f. Environmental Quality Monitoring

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

Location	Value	Standards
In the vicinity of the	The observed value of 53.5 dB (A) is	Within the CPCB
construction site, at the	found to be less than the prescribed	standard value of
location advised by the	limits in comparison with the CPCB	65db(A)
Environment Specialist of the	Noise Quality Standard for	
DSC	commercial 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/m³	61.0	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>	9.0	80.0
by the Environment	Oxides of Nitrogen, µg/m <sup>3</sup>	14.0	80.0
Specialist of the DSC	Carbon monoxide mg/m <sup>3</sup>	Not detected	2.0
		The observed AAQ values are within the regulatory standards indicating the construction activities does not have any impact on the existing air quality.	

#### g. Grievance Record and Action Taken

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



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

## a. Implementation status

S. No.	Sub Project Component/ Packages	Details of work under Package	Commence ment of Civil Works	Expected date of Completion	Physical Progress till date	Type of Work presently Conducted	Remarks
1.	Package T- 3/9/11: Conservation Works at Town Hall, Ram Bagh and Historic Buildings along Heritage Walk in Amritsar - Conservation Works at Town Hall	Conservation Works at Town Hall - • Consolidation of walls, repairs, restoration • Conservation of doors and windows. • Preservation of areas with historic significance	15 Feb 2016	14 Aug 2017	45.0%	<ul> <li>Light fitting &amp; Cleaning work in progress</li> <li>Wood work in progress</li> <li>Finishing for staircase (internal) in progress</li> <li>Erection of spiral staircase in progress</li> </ul>	The Contractor has been asked to expedite the work

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

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



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

## c. Compliance status with Loan Covenant:

Package no	Environmental Safeguard related Loan Covenants	Compliance Status
<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	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 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
	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 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 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 character of place.	Satisfactory	Exposed steel and concrete are barricaded to avoid any safety hazard.
3. Construction work area to be demarcated on ground	Construction work area is being barricaded and separated from labour camps	Satisfactory	Continuous monitoring is required.
4. Consideration to be given for material storage at construction sites.	Adequate space allotted for material storage	Satisfactory	All reusable construction material like bricks to be stacked and covered. All loose material will be covered from all the sides.
5. Safe disposal of extraneous wastes to be ensured in the pre- identified disposal locations.	All the waste material at sites are properly disposed.	Satisfactory	Continuous monitoring is required.
6. The contractor to take precaution to reduce the level of dust at construction sites.	Sprinkling of water and covering of loose construction material is being taken up	Satisfactory	Continuous monitoring is required.
7. The waste generated will be reused in construction activities, either as a fill material or based on its suitability of reuse to maximum extent.	As per the mitigation measures the construction waste are utilised to the extent possible	Satisfactory	Continuous monitoring is required.
8. All workers employed on mixing asphaltic material, cement, lime mortars, concrete etc., will be provided with protective footwear and protective goggles.	Work being carried out as per plan	Satisfactory	Continuous monitoring will be done to ensure all the workers are using PPE's.
9.The Contractor will, at his own expense, conform to all anti- malaria instructions given to him by the Engineer	Work being carried out as per plan	Satisfactory	Contractors have been instructed to implement all measures to avoid any mosquito breeding in the labour camps.



## f. Environmental Quality Monitoring

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

Location	Value	Standards
In the vicinity of the	The observed value of 51.8 dB (A) is	Within the CPCB
construction site, at the	found to be less than the prescribed	standard value of
location advised by the	limits in comparison with the CPCB	65db(A)
Environment Specialist of the	Noise Quality Standard for	
DSC	commercial 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/m³	58.0	100.0
construction site, at	PM <sub>2.5</sub> , μg/m³	39.0	60.0
the location advised	1 / 1 5	7.0	80.0
by the Environment	Oxides of Nitrogen, µg/m <sup>3</sup>	12.0	80.0
Specialist of the DSC	Carbon monoxide mg/m <sup>3</sup>	Not detected	2.0
		The observed AAQ values are within the regulatory standards indicating the construction activities does not have any impact on the existing air quality.	

### g. Grievance Record and Action Taken

Date	Subproject	Problem related to	Received through	Description	Status
1.	Package 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 Wisili focilities at asts and Crofts Centre (man Lace) 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. Bagk Dvill Falebagersh Schib, Punjab. (details of land Bread building) ) ..... mas 6 Place: Changijarh Signature ..... Department /owner Date: 28/9/14 Director, Affairs Archaeolo meso **Counter Signed** ) eputy Commissioner Forthe Sahib (Official Stamp)

#### CERTIFICATE AND UNDERTAKING

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(10)

It is certified that: -Fatchagash Sahib 1. The Aam Chas the Management and seuse plan of Aam Ichas Ragh in chiding Conservations of (name of the project) Boundary wall and Prividing Wikitors facilities at asts & Chaft-Centre (Mouts project is proposed, for execution by PHTPB of the Tourism Department (Punjab), is under the ownership of Disectorali of cultural Affairs, Aschaeology and Museums and is under the possession of Bueclo hale 7 (Details of possessor) Meseums 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, Rinjah. Signature MB6 Place: Chardigarh Date: 23 8/14 Department/Organisation/Owner (Official Stamp) Director, Cultral Affairs Archaeology & Museums, Punjab, Chandigarh Counter Signed nutre Comindision Facolitation Stahilp)

# 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

	Noise Qu	uality Monitoring	(Tom	ib of Alfasan	i )
0.:#372	CHANDIGARH PO TESTING LABO (Environmental Monitoring, EIA Website : www.cpt 2, Sec. 15-A, Chandigarh-160 015 🕿 : 6, Phase-VII, Indl. Area, Mohali - 1600	NOC, ETP, STP)			ALL CLARKER AND ALL CLARKER AN
					cpte125@gmail.com, lab@cptl.co.
REP	ORT NO: IH/2016/11/02 (N)	TEST CERTIF	1.11	1. Sec	EPORTING DATE: 15.11.201
	CONSE	ERVATION OF TOME ENGARH SAHIB (PE	EVELO 3S & R. 5.))	TAGE CONSER PMENT LOT NO AUZA SHARIF,	VATION
Samp	ling Plan Ref. No:	SAMPLE PARTI CPTL/NM/08		1. C. C. C. C. L.	
	of Monitoring:	10-11-2016		oe of Sample: mpling Location:	Air Quality w.r.t Nois
Samp	le Identification No: CPTL/SPL			vironmental Condi	Surrounding of Alfsani Tom
Natur	e of Sample:	Noise Level		onitoring Done By:	014M 00
S. No.	Location				
27110	(Silence Zone)		Value in dB(A) Average		Test Method
	Contraction of the second	Day 7	Time	Night Time	
01.	Surrounding of Alfsani Tomb	(1 Ho 41)		(1 Hour) 34.4	CPCB/OSHA
	Prescribed Standard	50		40	
				Manth Sug (	FIV)
	, tutto				Authorized Sign.)
	The Charge)				12/11/2

Website : www.cpl 2, Sec. 15-A, Chandigarh-160 015 😫 6, Phase-VII, Indi. Area, Mohali - 1600	0172-4669295	00312: e.mai - sital collmol	KABET accredited EA consultant, MoEF & CC & PPCB recogn ISO KD1 : 203, 80 1401/204 and 0x5AS 1001/207 certified late
		ros 12, e-mail . sital_cpumor	nali@yahoo.co.in, cptle126@gmail.com, lab@cptl.co.
		and the second second	kan an de militaire e
	TES	T CERTIFICATE	
ORT NO: IH/2016/11/01 (A) ME OF INDUSTRY: M/s IN	PERIAL HI	GHWAVS HEDITA	REPORTING DATE: 15.11.2
& VIS	ITOR FACI	LITIES, DEVELOPM	TENT LOT NO II.
CONS	ERVATION	OF TOMBS & RAU	ZA SHARIF,
LITA .			
pling Plan Ref. No.:	CPTL/AA	AM/06 Type of Sa	mple: Air Oua
of Sample Collection.: ple Identification No.: CPTL/S	10-1 PL/PB/2016/11	1-2016 Location of 1-2016 Environme 1/03(A) Analysis D	of Sampling: Surrounding of Alfsani To ental Conditions: Clear S uration: 11-11-2016 to 14-11-20
re of Sample:	the second s		llected By: R.K. Mukhe
Location of sampling station			omb
Instrument used for sampling		RDS & FPS	
Flow rate of sampling for PM10		1.18 m <sup>3</sup> /min	
Flow rate of sampling for PM25		1.0 m <sup>3</sup> /hour	
Flow rate of sampling for Gases		1.0 LPM	
Time period for sampling	1992 A. 19	480 minutes	
PARAMETERS	RESULTS	NOTIFICATION	<i>i.</i>
articulate Matter (PM10), µg/m3	57.6	100 100	IS 5182 (P-23): 2006, (RA - 2012)
articulate Matter (PM23), µg/m3	- 35.0	60	SP 61 Issue Date-04-08-2012
itrogen Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	8.7	80	IS 5182 (P-2): 2001, (RA - 2012)
arbon monoxide (CO), mg/m3	0.66	4	IS 5182 (P-6): 2006, (RA - 2012) IS 5182 (P-10): 1999, (RA - 2009)
	& VIS CONS IN FA'	ME OF INDUSTRY: M/s IMPERIAL H & VISITOR FACI CONSERVATION IN FATEHGARH : SAMP oling Plan Ref. No.: of Sample Collection.: of Sample Collection.: of Sample Collection.: of Sample Collection.: intrument used for sampling Flow rate of sampling station Instrument used for sampling Flow rate of sampling for PM <sub>2.5</sub> Flow rate of sampling for PM <sub>2.5</sub> Flow rate of sampling for PM <sub>2.5</sub> Flow rate of sampling for Gases Time period for sampling <b>CARAMETERS</b> RESULTS rticulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup> 57.6 rticulate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup> 35.0 Jphur dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup> 8.7 itrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup> 21.3	AE OF INDUSTRY:       M/s IMPERIAL HIGHWAYS HERITAG         & VISITOR FACILITIES, DEVELOPM       CONSERVATION OF TOMBS & RAUX         IN FATEHGARH SAHIB (PB.)       SAMPLE PARTICULARS         Diling Plan Ref. No.:       CPTL/AAM/06       Type of Sa         of Sample Collection.:       10-11-2016       Location of Sample Collection.:         of Sample Collection.:       10-11-2016       Environme         ole Identification No.:       CPTL/SPL/PB/2016/11/03(A)       Analysis D         re of Sample:       Ambient Air       Sample Collection.:         Instrument used for sampling       RDS & FPS         Flow rate of sampling for PM <sub>10</sub> 1.18 m <sup>3</sup> /min         Flow rate of sampling for Gases       1.0 LPM         Time period for sampling       480 minutes <b>ARAMETERS</b> RESULTS       PRESCRIBED         STANDARD AS P       NOTIFICATION         nutuate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup> 57.6       100         rticulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup> 8.7       80         itrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup> 21.3       80

P	CHANDIGARH POLL TESTING LABORA (Environmental Monitoring, EIA, NOC	ATORY		REGISTERED M4410210
: #372, S E-126, P	Website : www.cptl.co.in ec. 15-A, Chandigarh-160 015 2 : 0172- hase-VII, Indi. Area, Mohali - 160055 2	1		SET accredited EA consultant, MCEF & CC & PPC8 recogniz 5001 : 3008, 150 140012004 and OKSAS 180012007 overfled labore Cpt1e 126@gmail.com, lab@cpt1.co.
		TEST CERTIFIC	CATE	
REPO	RT NO: IH/2016/11/02(AN)		R	EPORTING DATE: 15.11.20
NAME	OF INDUSTRY: M/s IMPEF & VISITOI CONSERV	R FACILITIES, DEV ATION OF TOMBS GARH SAHIB (PB.)	VELOPMENT LOT NO & & RAUZA SHARIF,	VATION, O. – II,
	N.	SAMPLE PARTIC	ULARS	
Sampli	ng Plan Ref. No:	CPTL/NM/08	Type of Sample:	Air Quality w.r.t No
Date of	Monitoring:	10-11-2016	Sampling Location:	Surrounding of Bibi T
100	Identification No: CPTL/SPL/PB		Environmental Cond	
Nature	of Sample:	Noise Level	Monitoring Done By:	R.K. Mukherj
C N	Torretter	Vah	ie in dB(A)	Test Method
<u>S. No.</u>	Location (Silence Zone)	1	verage	
		Day Time (1 Hour)	Night Time (1 Hour)	
01.	Surrounding of Bibi Taj	42.0	34.8	CPCB/OSHA
1.10	Prescribed Standard	50	40	
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			SEL	5. State 1.
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	butto			7 /1 /2
L	it In-Charge)			(Authorized Sign. Date:
				Sizi Sing
Date:	itava Dutta			05

Bother: Page 50 Million 100 Dif Still 21246689295         Bother: Page 50 Million 100 Dif Still 21246689295         E128, Phase-Vil, Indi. Area, Mohall - 160055 Still 21245090312; e-mail : sital_cptimohall@yahoo.co.in, cptle126@gmail.com, lab@cptl.         TEST CERTIFICATE         REPORT NO: IH/2016/11/01 (A)         REPORT INC IH/2016/11/01 (A)         REPORT NO: IH/2016/11/01 (A)         REPORT NO: IH/2016/11/01 (A)         NAME OF INDUSTRY: M/s IMPERIAL HIGHWAYS HERITAGE CONSERVATION, & VISITOR FACILITIES, DEVELOPMENT LOT NO. – II, CONSERVATION OF TOMBS & RAUZA SHARIF, IN FATEHGARH SAHIB (PB.)         SAMPLE PARTICULARS         Sampling Plan Ref. No.:         CPTL/AAM/06         Type of Sample:         Sample Identification No.: CPTL/SPL/PB/2016/11/01(A)         Sample Collection :         II-11-2016         Surrounding of Bibl Taj         Sample Collection No.: CPTL/SPL/PB/2016/11/01(A)         Nature of Sample:         Analysis Duration:         II-11-2016         Surrounding of Bibl Taj         Sample Collection No.: CPTL/SPL/PB/2016/11/01(A)         Nater of Sampling station       Surrounding of	ec. 15-A, Chandigarh-160 015 🖀 : hase-VII, Indl. Area, Mohali - 1600 T NO: IH/2016/11/01 (A) OF INDUSTRY: M/s IM & VISI CONSI	0172-4669295 55 🖀 : 0172-509 TEST IPERIAL HIG TOR FACIL	T CERTIFICATE GHWAYS HERI	<u>C</u>	REPORTING DATE: 15.11.
REPORT NO: IH/2016/11/01 (A)       REPORTING DATE: 15.11         NAME OF INDUSTRY: M/s IMPERIAL HIGHWAYS HERITAGE CONSERVATION, & VISITOR FACILITIES, DEVELOPMENT LOT NO. – II, CONSERVATION OF TOMBS & RAUZA SHARIF, IN FATEHGARH SAHIB (PB.)         SAMPLE PARTICULARS         Sampling Plan Ref. No.:       CPTL/AAM/06       Type of Sample:       Air Q         Period of Sampling:       Surrounding of Bibi Taj         Date of Sample Collection.:       10-11-2016       Location of Sampling:       Surrounding of Bibi Taj         CPTL/SPL/PB/2016/11/01(A)         Nature of Sample:       Ambient Air       Sample Collected By       R.K. Mukl         TECHNICAL DATA         1.       Location of sampling station       Surrounding of Bibi Taj Tomb       R.K. Mukl         2.         1.       Location of sampling for PM <sub>10</sub> 1.15 m³/min         4.       Flow rate of sampling for PM <sub>25</sub> 1.0 m³/hour         5.       Flow rate of sampling for Gases       1.0 LPM         6         Time period for sampling         STANDARD AS PER NOTIFICATION.         NOTIFICATION.         1.0 m <sup>3</sup> /hour          1.0 LPM <th>OF INDUSTRY: M/s IM &amp; VISI CONSI</th> <th>PERIAL HI TOR FACIL</th> <th>GHWAYS HERI</th> <th>-</th> <th>REPORTING DATE: 15.11.</th>	OF INDUSTRY: M/s IM & VISI CONSI	PERIAL HI TOR FACIL	GHWAYS HERI	-	REPORTING DATE: 15.11.
REPORT NO: IH/2016/11/01 (A)       REPORTING DATE: 15.11         NAME OF INDUSTRY: M/s IMPERIAL HIGHWAYS HERITAGE CONSERVATION, & VISITOR FACILITIES, DEVELOPMENT LOT NO. – II, CONSERVATION OF TOMBS & RAUZA SHARIF, IN FATEHGARH SAHIB (PB.)         SAMPLE PARTICULARS         Sampling Plan Ref. No.:       CPTL/AAM/06       Type of Sample:       Air Q         Period of Sampling:       Surrounding of Bibi Taj         Date of Sample Collection.:       10-11-2016       Location of Sampling:       Surrounding of Bibi Taj         CPTL/SPL/PB/2016/11/01(A)         Nature of Sample:       Ambient Air       Sample Collected By       R.K. Mukl         TECHNICAL DATA         1.       Location of sampling station       Surrounding of Bibi Taj Tomb       R.K. Mukl         2.         1.       Location of sampling for PM <sub>10</sub> 1.15 m³/min         4.       Flow rate of sampling for PM <sub>25</sub> 1.0 m³/hour         5.       Flow rate of sampling for Gases       1.0 LPM         6         Time period for sampling         STANDARD AS PER NOTIFICATION.         NOTIFICATION.         1.0 m <sup>3</sup> /hour          1.0 LPM <th>OF INDUSTRY: M/s IM &amp; VISI CONSI</th> <th>PERIAL HI TOR FACIL</th> <th>GHWAYS HERI</th> <th>-</th> <th>REPORTING DATE: 15.11.</th>	OF INDUSTRY: M/s IM & VISI CONSI	PERIAL HI TOR FACIL	GHWAYS HERI	-	REPORTING DATE: 15.11.
NAME OF INDUSTRY: M/s IMPERIAL HIGHWAYS HERITAGE CONSERVATION, & VISITOR FACILITIES, DEVELOPMENT LOT NO. – II, CONSERVATION OF TOMBS & RAUZA SHARIF, IN FATEHGARH SAHIB (PB.)         SAMPLE PARTICULARS         Sampling Plan Ref. No.:       CPTL/AAM/06       Type of Sample:       Air Q         Period of Sampling:       Surrounding of Bibi Taj         Date of Sample Collection.:       11-11-2016         Date of Sample:       CPTL/SPL/PB/2016/11/01(A)         Analysis Duration:       11-11-2016 to 14-11-12016 to 14-11-11-2016 to 14-11-12016 to 14-11-11-2016 to 14-11-12016 to 14-11-11-2016 to 14-10       INTECHNICAL DATA         Instrument used for sampling RDS & FPS       3       Instrument used for sampling for PM <sub>10</sub> Instrument used for sampling for Gases       1.0 LPM<	OF INDUSTRY: M/s IM & VISI CONSI	TOR FACIL	GHWAYS HERI ITIES, DEVELO	TAGE CO	REPORTING DATE: 15.11.
& VISITOR FACILITIES, DEVELOPMENT LOT NO. – II, CONSERVATION OF TOMBS & RAUZA SHARIF, IN FATEHGARH SAHIB (PB.)         SAMPLE PARTICULARS         Sampling Plan Ref. No.:       CPTL/AAM/06       Type of Sample:       Air Q         Period of Sampling::       10-11-2016       Location of Sampling:       Surrounding of Bibi Taj         Date of Sample Collection.:       11-11-2016       Environmental Conditions:       Clete         Sample Identification No.:       CPTL/SPL/PB/2016/11/01(A)       Analysis Duration:       cleto 11-11-2016 to 14-11-         Nature of Sample:       Ambient Air       Sample Collected By       R.K. Mukl         TECHNICAL DATA         1.       Location of sampling station       Surrounding of Bibi Taj Tomb         2.       Instrument used for sampling       RDS & FPS         3.       Flow rate of sampling for PM <sub>10</sub> 1.15 m³/min         4.       Flow rate of sampling for Gases       1.0 LPM         6.       Time period for sampling       480 minutes         TEST METHOD         STANDARD AS PER NOTIFICATION, 18 <sup>1<sup>th</sup></sup> NOVEMBER, 2009         Particulate Matter (PM <sub>10</sub> ), µg/m³       61.4       100       IS 5182 (P-23); 2006, (RA - 2012)	& VISI CONSI	TOR FACIL	ITIES, DEVELO	TAGE CO	
SAMPLE PARTICULARS         Sampling Plan Ref. No.:       CPTL/AAM/06       Type of Sample:       Air Q         Period of Sampling.:       10-11-2016       Location of Sampling:       Surrounding of Bibi Taj         Date of Sample Collection.:       11-11-2016       Environmental Conditions:       Cleation of Sampling:       Surrounding of Bibi Taj         Sample Identification No.:       CPTL/SPL/PB/2016/11/01(A)       Analysis Duration:       11-11-2016 to 14-11-         Nature of Sample:       Ambient Air       Sample Collected By       R.K. Mukl         TECHNICAL DATA         1.       Location of sampling station       Surrounding of Bibi Taj Tomb       R.K. Mukl         2.       Instrument used for sampling       RDS & FPS       3.       Flow rate of sampling for PM <sub>10</sub> 1.15 m³/min         4.       Flow rate of sampling for PM <sub>2.5</sub> 1.0 m³/hour       1.0 LPM       5.         5.       Flow rate of sampling       480 minutes       TEST METHOD         6.       Time period for sampling       PRESCRIBED       TEST METHOD         STANDARD AS PER NOTIFICATION. 18 <sup>1<sup>11</sup></sup> NOVEMBER, 2009       NOTIFICATION.       18 5182 (P-23): 2006, (RA - 2012)         Particulate Matter (PM <sub>10</sub> ), µg/m³       61.4       100       IS 5182 (P-23): 2006, (RA - 2012) <th></th> <th></th> <th>OF TOMBS &amp; R.</th> <th><b>DPMENT</b></th> <th>LOT NO. – II,</th>			OF TOMBS & R.	<b>DPMENT</b>	LOT NO. – II,
Period of Sampling::       10-11-2016       Location of Sampling:       Surrounding of Bibi Taj         Date of Sample Collection.:       11-11-2016       Environmental Conditions:       Cleat         Sample Identification No.:       CPTL/SPL/PB/2016/11/01(A)       Analysis Duration:       Cleat         Nature of Sample:       Ambient Air       Sample Collected By       11-11-2016 to 14-11-         Nature of Sampling:       Ambient Air       Sample Collected By       R.K. Mukl         TECHNICAL DATA         1.       Location of sampling station       Surrounding of Bibi Taj Tomb         2.       Instrument used for sampling       RDS & FPS         3.       Flow rate of sampling for PM <sub>10</sub> 1.15 m <sup>3</sup> /min         4.       Flow rate of sampling for Gases       1.0 LPM         5.       Flow rate of sampling       480 minutes         PARAMETERS         RESULTS       PRESCRIBED         STANDARD AS PER       TEST METHOD         STANDARD AS PER       NOTIFICATION.         18 <sup>TH</sup> NOVEMBER, 2009       IS 5182 (P-23): 2006, (RA - 2012)				RS	
1.       Location of sampling station       Surrounding of Bibi Taj Tomb         2.       Instrument used for sampling       RDS & FPS         3.       Flow rate of sampling for PM10       1.15 m³/min         4.       Flow rate of sampling for PM25       1.0 m³/hour         5.       Flow rate of sampling for Gases       1.0 LPM         6.       Time period for sampling       480 minutes         PARAMETERS         PARAMETERS       RESULTS       PRESCRIBED STANDARD AS PER NOTIFICATION. 18 <sup>TH</sup> NOVEMBER, 2009       TEST METHOD         Particulate Matter (PM10), µg/m³       61.4       100       IS 5182 (P-23); 2006, (RA – 2012)	of Sampling.: Sample Collection.: Identification No.: CPTL/SI	10-11 11-11 PL/PB/2016/11/ Ambie	-2016 Locatio I-2016 Enviro /01(A) Analys ent Air Sample	on of Samp onmental Co is Duration e Collected	c Clear Clear
2.       Instrument used for sampling       RDS & FPS         3.       Flow rate of sampling for PM <sub>10</sub> $1.15 \text{ m}^3/\text{min}$ 4.       Flow rate of sampling for PM <sub>2.5</sub> $1.0 \text{ m}^3/\text{hour}$ 5.       Flow rate of sampling for Gases $1.0 \text{ LPM}$ 6.       Time period for sampling       480 minutes         PARAMETERS         PARAMETERS       RESULTS         Particulate Matter (PM <sub>10</sub> ), $\mu$ g/m <sup>3</sup> $61.4$	ocation of sampling station				b
3.       Flow rate of sampling for $PM_{10}$ 1.15 m <sup>3</sup> /min         4.       Flow rate of sampling for $PM_{2.5}$ 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         PARAMETERS       RESULTS       PRESCRIBED STANDARD AS PER NOTIFICATION. 18 <sup>TH</sup> NOVEMBER, 2009       TEST METHOD         Particulate Matter (PM <sub>10</sub> ), $\mu g/m^3$ 61.4       100       IS 5182 (P-23): 2006, (RA – 2012)	on an				50
Flow rate of sampling for Gases     1.0 LPM       6.     Time period for sampling     480 minutes       PARAMETERS     RESULTS     PRESCRIBED STANDARD AS PER NOTIFICATION. 18 <sup>TH</sup> NOVEMBER, 2009     TEST METHOD       Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup> 61.4     100     IS 5182 (P-23): 2006, (RA - 2012)					2
Flow rate of sampling for Gases     1.0 LPM       6.     Time period for sampling     480 minutes       PARAMETERS     RESULTS     PRESCRIBED STANDARD AS PER NOTIFICATION. 18 <sup>TH</sup> NOVEMBER, 2009     TEST METHOD       Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup> 61.4     100     IS 5182 (P-23): 2006, (RA - 2012)	ow rate of sampling for PM2 4		1.0 m <sup>3</sup> /hour		
6.     Time period for sampling     480 minutes       PARAMETERS     RESULTS     PRESCRIBED STANDARD AS PER NOTIFICATION. 18 <sup>TH</sup> NOVEMBER, 2009     TEST METHOD       Particulate Matter (PM <sub>10</sub> ), μg/m <sup>3</sup> 61.4     100     IS 5182 (P-23): 2006, (RA – 2012)					
PARAMETERS     RESULTS     PRESCRIBED     TEST METHOD       STANDARD AS PER NOTIFICATION. 18 <sup>TH</sup> NOVEMBER, 2009     TEST METHOD       Particulate Matter (PM <sub>10</sub> ), μg/m <sup>3</sup> 61.4     100     IS 5182 (P-23): 2006, (RA - 2012)	10- 0022				
STANDARD AS PER NOTIFICATION. 18 <sup>TH</sup> NOVEMBER, 2009           Particulate Matter (PM <sub>10</sub> ), μg/m <sup>3</sup> 61.4         100         IS 5182 (P-23): 2006, (RA – 2012)		DECILI TO			
Particulate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup> 61.4 100 IS 5182 (P-23): 2006, (RA – 2012)	KAMETERS	RESULTS	STANDARD A NOTIFICAT	AS PER FION.	TEST METHOD
		2.533	100		
			the second se		
100102(1*2), 2001, (RA = 2012)					
	on monoxide (CO), mg/m <sup>3</sup>	0.62	4		IS 5182 (P-10):1999, (RA – 2009)
	me period for sampling RAMETERS culate Matter (PM <sub>10</sub> ), μg/m <sup>3</sup> culate Matter (PM <sub>2.5</sub> ), μg/m <sup>3</sup>	61.4 38.8	480 minutes PRESCRIE STANDARD A NOTIFICAT 18 <sup>TH</sup> NOVEMB 100 60	AS PER FION.	IS 5182 (P-23): 2006, (RA – 2 SP 61 Issue Date-04-08-2012
		24.3	80		
	oon monoxide (CO), mg/m <sup>3</sup>	0.62	4		
		f Sampling.: Sample Collection.: Identification No.: CPTL/SI of Sample: Decation of sampling station strument used for sampling ow rate of sampling for PM <sub>10</sub> ow rate of sampling for PM <sub>2.5</sub> ow rate of sampling for Gases me period for sampling <b>RAMETERS</b> culate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup> culate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup> hur dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup> ogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	f Sampling.: 10-11 Sample Collection.: 11-11 Identification No.: CPTL/SPL/PB/2016/11/ of Sample: Ambie TH ocation of sampling station strument used for sampling ow rate of sampling for PM <sub>10</sub> ow rate of sampling for PM <sub>2.5</sub> ow rate of sampling for Gases me period for sampling RAMETERS RESULTS culate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup> 61.4 culate Matter (PM <sub>2.5</sub> ), µg/m <sup>3</sup> 38.8 hur dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup> 9.3 ogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup> 24.3	f Sampling.:10-11-2016LocatieSample Collection.:11-11-2016EnviroIdentification No.:CPTL/SPL/PB/2016/11/01(A)AnalysSample:Ambient AirSampleTECHNICAL DATocation of sampling stationSurrounding of Bstrument used for samplingRDS & FPSow rate of sampling for PM101.15 m³/minow rate of sampling for PM2.51.0 m³/hourow rate of sampling for Gases1.0 LPMme period for sampling480 minutesSTANDARD / NOTIFICAT 18 <sup>TH</sup> NOVEMBculate Matter (PM10), $\mu g/m^3$ 61.4100culate Matter (PM2.5), $\mu g/m^3$ 38.860hur dioxide (SO2), $\mu g/m^3$ 9.380ogen Dioxide (NO2), $\mu g/m^3$ 24.380	f Sampling.:       10-11-2016       Location of Sample Collection.:         Sample Collection.:       11-11-2016       Environmental Collected         Identification No.:       CPTL/SPL/PB/2016/11/01(A)       Analysis Duration         Sample:       Ambient Air       Sample Collected         TECHNICAL DATA         Sample for sampling station         Surrounding of Bibi Taj Tom         strument used for sampling for PM <sub>10</sub> ow rate of sampling for PM <sub>10</sub> ow rate of sampling for PM <sub>2.5</sub> ow rate of sampling for Gases         I.0 LPM         me period for sampling       480 minutes         STANDARD AS PER NOTIFICATION.         NOTIFICATION.         Location of Sample Collected Stanpling         Culate Matter (PM <sub>10</sub> ), µg/m <sup>3</sup> out rate of sampling         PRESCRIBED         STANDARD AS PER NOTIFICATION.         NOTIFICATION.         1.0         OUT rescriber Stanpling         Alter Colspan="2">Colspan="2">Colspan= 2         OUT rescriber Stanpling         Colspan= 2

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	TE	ST R	POR	T				
PPCB-Ref. No. Lab/3233892 Dated-30.09.2011	1							
			1.					
Test Report No. :EL121216GN008					Page No. 1/1			
Customer		na Construct						
		Facility Deve		ige Conservation				
	1.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		Bagh Fatehgarh Sahib I	Punjab			
Work Order No. & Date	Telephor	nic Order Dt.	09/12/2016					
Type of Sample	Ambient	Noise						
Mode of Collection of Sample	Sampling	by laborato	ry	and the second s				
Date of Sampling	12/12/20	16						
Sampling Location	Near Old	Near Old Hotel						
Sampling Protocol	IS: 9989	IS: 9989:1981 R-2002 and as per customers requirements						
Date of Receipt of Sample	12/12/20	12/12/2018						
Period of Analysis	12/12/20	16 To 13/12/	2016	and the second s				
Date of Reporting	15/12/20	Contraction of the second seco						
Testing Protocol		1981 R-2002	2					
Environmental Condition	Normal							
		R	ESULTS					
S.No. Test Parameter	Units	Result	Limit	Method				
1 Ambient Day Time Noise Levels 1 Hour Leg	dB (A)	57.2	55	IS: 9989:1981 R-2002				
Remarks (if any)								
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wanpselly			Fo	r Eco Laboratories & Co	insultants Pvt. Ltd.			
Lab Incharge				2	offorized Signatory			
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and a second	NAE	BL/MOEF/P	PCB / HS	PCB / BIS a	approved Laboratory	Arm No. MINIMUMEN		
restor	ing eco balance :				SAS-18001:2007	ISO 9001:2008		
		CIN :	U/4140F	B2011PTC	034739			
r		TE	ST R	EPORT				
	PPCB-Ref. No. Lab/32388 Dated-30.09.2011	12						
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	Report No. :EL121216GA001	1 0.10.1				Page No. 1		
Custo	mer	0.0777220033		tion Pvt. Ltd. ahway Heritao	e Conservation			
		& Visitor	Facility Dev	elopment.				
Work	Order No. & Date			: 09/12/2016	Bagh Fatehgarh Sahib Pu	njab		
	of Sample		Air Quality					
_	of Collection of Sample		Sampling by laboratory					
Date	of Sampling	12/12/20	16					
Samp	ling Location	Near Old	Hotel	-				
Constant and an	ling Protocol			, CPCB Guide	lines and Customer's Re	quirements.		
	of Receipt of Sample	12/12/20						
-	d of Analysis		16 To 15/12	2/2016				
	of Reporting	15/12/20 NAAQS 2						
	g Protocol	Normal	008					
			R	ESULTS				
S.No.	Test Parameter	Units	Results		Test Method			
1	Particulate Matter (PM 10)	µg/m3	72.3	100	IS:5182 (P-23) 2004			
2	Particulate Matter (PM 2.5)	µg/m3	28.9	60	Lab SOP EL-A1-PM2.5 Iss			
3	Sulehur Diavida (COO)	Carl au	11.10	40	on Manufacturer's Manual ( IS:5182 (P-2) 2001	and CPCB Guidelines		
4	Sulphur Dioxide (SO2) Nitrogen Oxides (as NO2)	µg/m3 µg/m3	11.10 23.56	80 80	IS:5182 (P-2) 2001			
5	Carbon Monoxide (CO)	mg/m3	<1.5	00	Lab SOP EL-A2-CO Issue	01 Dated 1.6.14		
					Electrochemical Method- N	lanufacturer's Manual		
Remark	ks (if any)			End of Report				
200	wheet J xh				Eco Laboratories & Cor	sultants Pvt. Ltd.		
Lab In	charge				S LIN	and Signatory		
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		EST RI			
PPCB-Ref. No. Lab/3238892 Dated-30.09.2011				<u>.</u>	
	4.				
Test Report No. :EL121216GN006 Customer	Del Det	ana Carata	les Dat 144		Page No. 1/1
Customer		ana Construct		ge Conservation	
		r Facility Devi		Se conservation	
				Bagh Fatehgarh Sahib P	Punjab
Work Order No. & Date	Telepho	nic Order Dt.	09/12/2016		
Type of Sample	Ambien	t Noise			
Mode of Collection of Sample	Samplin	g by laborato	ry	Longe and the second	
Date of Sampling	12/12/20	016			
Sampling Location	Near Na	w Ghar			
Sampling Protocol	IS: 9989	:1981 R-200	2 and as per	customers requirements	
Date of Receipt of Sample	12/12/20				
Period of Analysis		016 To 13/12	2016		
Date of Reporting	15/12/20				
Testing Protocol		1981 R-2002	2		
Environmental Condition	Normal				
C. L.	1	1	ESULTS		
S.No. Test Parameter	Units	Result	Limit	Method -	
1 Amblent Day Time Noise Levels 1 Hour Leq	dB (A)	58.6	55	IS: 9989:1981 R-2002	
Remarks (if any) 2 ma freed ff Lab Incharge	·	••E	ind of Repor	Eco Laboratories & Co	moultants Pvt. Ltd.
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restoring eco balance	ABL / MOEF	/ PPCB / I	HSPCB / BI	S approved Laboratory	Y. 9
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PPCB-Pof No 1-1 (no		14.07414	WPB2011P1	1C034739	
PPCB-Ref. No. Lab/32 Dated-30.09.201	18892	EST I	REPOR	T	
Land a start		-			
Test Report No. :EL121216GA00	2	-			Page No. 111
Customer	Raj Pu	utana Constr	ruction Pvt. Ltd		Page No. 1/1
	Const. & Visit	of Imperial	Highway Herita evelopment.	age Conservation	
Week Out - In	Lot No	.1 Conserva	tion Aam Khas	Bagh Fatehoarh Sabih Puel	ab
Work Order No. & Date	Lot No.1 Conservation Aam Khas Bagh Fatehgarh Sahib Punjab Telephonic Order Dt.: 09/12/2016				
Type of Sample Mode of Collection of Sample	Ambient Air Quality				
Date of Sampling		ing by labora	atory	No. of the second second	
Sampling Location	12/12/2016				
Sampling Protocol	Near Nav Ghar				
Date of Receipt of Sample	IS: 518	2 (P-14) 200	00, CPCB Guid	elines and Customer's Requi	rements.
Period of Analysis	12/12/2	016 016 To 15/1			
Date of Reporting	15/12/2		2/2016	and the second second	
Festing Protocol	NAAQS	and the second s	-		
Environmental Condition	Normal	2000			
	1.11	F	RESULTS		
S.No. Test Parameter	Units	Results		Test Method	
Dert in the					
Particulate Matter (PM 10) Particulate Matter (PM 2.5)	µg/m3	65.8	100	IS:5182 (P-23) 2004	
Portocolate Matter (PM 2.5)	µg/m3,	31.3	60	Lab SOP EL-A1-PM2 5 lesus 0	Dated 1.6.14 based
Sulphur Dioxide (SO2)	µg/m3	10.27	80	on Manufacturer's Manual and C IS:5182 (P-2) 2001	CPCB Guidelines
Nitrogen Oxides (as NO2)	µg/m3	22.43	80	IS:5182 (P-2) 2001 IS:5182 (P-6) 2006	
Carbon Monoxide (CO)	mg/m3	<1.5	04	Lab SOP EL-A2-CO Issue 01 Da	ated 1.6.14
marks (if any)	_			Electrochemical Method- Manufa	acturer's Manual
der Stor		•••	End of Report*		
arland (			For	co Laboratories & Consult	ants Pvt. Ltd.
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	CIN :	U74140	PB2011PT	
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PPCB-Ref. No. Lab/323889	12	UIN	LFUN	1
Dated-30.09.2011				
Test Report No. :EL121216GN007				
Customer	Rai Putar	a Construe	tion Pvt. Ltd	Page No. 1/1
				age Conservation
	& Visitor	Facility Dev	elopment.	Contraction of the second s
Work Order No. & Date				s Bagh Fatehgarh Sahib Punjab
Type of Sample	Ambient I		.: 09/12/2016	
Mode of Collection of Sample		by laborate	ory.	
Date of Sampling	12/12/201	And the second second		
Sampling Location	Near Meh	tabi Bagh	-	
Sampling Protocol		and the second sec	2 and as per	customers requirements
Date of Receipt of Sample	12/12/201			
Period of Analysis	12/12/201	6 To 13/12	/2016	
Date of Reporting	15/12/201	6		
Testing Protocol	IS 9989; 1	981 R-200	2	
Environmental Condition	Normal			
		R	ESULTS	
S.No. Test Parameter	Units	Result	Limit	Method
Ambient Day Time Noise Levels 1 Hour Leq	dB (A)	58.3	55	IS: 9989:1981 R-2002
emarks (if any) support ab Incharge		**E	End of Repor	r Eco Laboratories & Consultants Pyt. Ltd.
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	BL / MOEF / SO - 9001 :	PPCB / H	SPCB / BIS	Iltants Pvt. Ltd. approved Laboratory SAS-18001:2007 c034739
PPCB-Ref. No. Lab/323889 Dated-30.09.2011	2	EST R	EPOR	[
Toot Bened No. El 1212180 4000	-			*
Test Report No. :EL121216GA003 Customer	Pai Dut	ann Canata	uction Pvt. Ltd.	Page No. 1/1
	Const. & Visito	of Imperial H r Facility De	lighway Heritag velopment.	e Conservation
Work Order No. & Date		NAME OF TAXABLE PARTY AND ADDRESS OF TAXABLE PARTY.	t.: 09/12/2016	Bagh Fatehgarh Sahib Punjab
Type of Sample		t Air Quality	and the state of the state of the	
Mode of Collection of Sample		g by laborat		
Date of Sampling	12/12/2	016		
Sampling Location	Near M	ehtabi Bagh		
Sampling Protocol				elines and Customer's Requirements.
Date of Receipt of Sample	12/12/2			and outstand a requirements.
Period of Analysis	12/12/2	016 To 15/1	2/2016	
Date of Reporting	15/12/20	016		
esting Protocol	NAAQS	2009	and the second	
nvironmental Condition	Normal			
		F	RESULTS	
S.No. Test Parameter	Units	Results	NAAQS 2009	Test Method
Particulate Matter (PM 10)	µg/m3	69.5	100	IS:5182 (P-23) 2004
Particulate Matter (PM 2.5)	µg/m3	27.6	60	Lab SOP EL-A1-PM2.5 Issue 01 Dated 1.6.14 based on Manufacturer's Manual and CPCB Guidelines
Sulphur Dioxide (SO2)	µg/m3	12.61	80	IS:5182 (P-2) 2001
Nitrogen Oxides (as NO2) Carbon Monoxide (CO)	µg/m3	21.92	80	IS:5182 (P-6) 2006
Carbon Monoxobe (CO)	mg/m3	<1.5	04	Lab SOP EL-A2-CO Issue 01 Dated 1.6.14 Electrochemical Method- Manufacturer's Manual
warks (if any) ware fatter in the second sec			End of Report*	Eco Laboratories & Consultante Pvt. Ltd.
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#### NoC for Ropar Wetlands

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1	ਸਹਾਇਕ ਡਾਇਰੈਕਟਰ ਮੱਛੀ ਪਾਲ	ε,	
	ਰੂਪਨਗਰ । ਸੇਵਾਵਿਖੇ,		
	ਚੀਟ ਜਨਰਲ ਮੈਨੇਜਥ, ਪੰਜਾਬ ਹੈਰੀਟੇਜ਼ ਐੱਡ ਟੂਰਿਜ਼ਮ ਪ੍ਰਾ	ਮੇਸ਼ਨ ਬੋਰਡ,	
	चंडीग्रङ्घ । रिमृष्: Finalization of IDIPT- AD	R Tranche-2 Projects	ż
		b Hancher, Hojecis.	
	ਹਵਾਲਾ: ਆਪ ਜੀ ਦਾ ਪੱਤਰ ਨੰ: PHTPB	/IDIPT/2013/Tr-2/229/2494 태평 11-11-20	013
	ਉਪਰੋਕਤ ਵਿਸ਼ੇ ਤੇ ਹਵਾਲੇ ਅਧੀਨ ਪ	ਪੱਤਰ ਦੇ ਸਬੰਧ ਵਿੱਚ ਆਪ ਜੀ ਨੂੰ ਸੂਚਿਤ ਕੀੜਾ ਜਾਂਦਾ	ਹੈ, ਕਿ
	ਟੂਰਿਜ਼ਮ ਵਿਭਾਗ ਵੱਲੋਂ ਮੱਛੀ ਪੂੰਗ ਫਾਰਮ ਕੱਟਲੀ ਵਿਖੇ	ਐਕੁਏਰੀਅਮ-ਛਮ-ਅਵੇਅਰਨੈਸ ਸੈਂਟਰ ਦੀ ਸਥਾਪਨ	ਾਂ ਕਰਨ
	ਲਈ ਮਾਨਯੋਗ ਮੁੱਖ ਸਕੱਤਰ ਪੰਜਾਬ ਜੀ ਦੀ ਪ੍ਰਧਾਨਗੀ	ਹੇਠ ਮਿਤੀ 26-3-2008 ਨੂੰ ਹੋਈ ਮੀਟਿੰਗ ਵਿੱਚ ਹ	ਲਏ ਗਏ
	ਫੈਸਲੇ ਅਨੁਸਾਰ ਸਕੱਤਰ ਪਸੂ ਪਾਲਣ, ਮੈਂਡੀ ਪਾਲਣ ਮ	ਅਤੇ ਡੇਅਰੀ ਦਿਕਾਸ ਵਿਭਾਗ ਜੀ ਵੱਲੋਂ ਡਾਇਰੈਕਟਰ	ਟੁਰਿਜ਼ਮ
	ਪੰਜਾਬ ਚੰਡੀਗੜ੍ਹ ਜੀ ਨੂੰ ਪ੍ਰ <b>ਚਾਨਗੀ ਦਿੱਤੀ ਜਾ ਚੁੱ</b> ਕੀ ਹੈ	(ਪੱਤਰ ਦੀ ਨਕਲ ਨੱਥੀ ਹੈ )। ਪਾਰਕਿੰਗ ਲਈ ਜ	ਗ੍ਰਾ ਅਤੇ
	ਪਾਬ ਵੇਅ ਬਨਾਉਣ ਸਬੰਧੀ ਮਾਨਯੋਗ ਵਿੱਤੀ ਕਮਿਸ਼ਨਰ		
	ਜੀ ਦੀ ਪ੍ਰਧਾਨਗੀ ਹੇਠ ਮਿਤੀ 17-7-2009 ਨੂੰ ਮਿੰਨੀ	AND THE PARTY OF A DESCRIPTION OF A DAMAGE OF A DAMAGE OF A	
	ਅਨੁਸਾਰ ਇਜਾਜਤ ਦੇ ਦਿੱਤੀ ਗਈ ਸੀ (ਕਾਰਵਾਈ		
	ਪਾਲਣ, ਵਿਭਾਗ ਪੰਜਾਬ ਜੀ ਦੇ ਆਪ ਜੀ ਵੱਲ ਮੀ		
	ਰਾਹੀਂ ਇਤਰਾਜ਼ਹੀਤਤਾ ਸ਼ਰਟੀਫਿਕੇਟ ਜਾਰੀ ਕੀਤਾ ਜਾ	ਰੁੱਕਾ ਹੈ,ਜੀ (ਕਾਪੀ ਨੱਥੀ ਹੈ )।	
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	ਵਾਰਮ ਕੋਟਲੀ (ਰੂਪਨਗਰ) ਵਿਖੇ ਐਕੁਏਰੀਅਮ-ਕਮ		-
	ਆਖਰੀ ਹਫਤੇ ਸ਼ੁਰੂ ਕੀਤਾ ਗਿਆ ਸੀ ਅਤੇ ਇੱਕ ਹਫਤੇ		
	ਦੀ ਸਚਨਾਂ ਤੇ ਅਗਲੇਰੀ ਕਾਰਵਾਈ ਹਿੱਤ ਹੈ,ਜੀ ।		
	ਨੱਥੀ ਉਕਤ ਅਨੁਸਾਰ	model -	
	and the second of the second	ਸਹਾਇਕ ਡਾਇਰੈਕਦਰ ਮੱਛੀ ਪਾਲਣ,	
	ਪਿੱਠ ਔਕਣ ਨ <u>ੈ: 1025</u> ਸਡਮਪ(ਰ) ਮਿਤੀ	ਰੂਪਨਗਰ ।	
	ਪਿਠ ਅਕਣ ਨ:ਨਿਲਸ਼ਰਸਪ(ਰ) ਸਿਤੀ ਉਤਾਰਾ ਡਾਇਰੈਕਟਰ ਤੇ ਵਾਰਡਨ ਮੱਛੀ	ਨ ਪਾਲਣ ਵਿਭਾਗ, ਪੰਜਾਬ ਚੰਡੀਗੜ੍ਹ ਜੀ ਨੂੰ ਉਨ੍ਹਾਂ ਦੇ ਇਸ	ਦਫਤਰ
	ਵੱਲ ਮੀਮੋਂ ਨੂੰ: 12/3/09/ਐਫ.ਈ.ਓ/ਜੀ.ਏ./12063	ਮਿਤੀ 19-11-2013 ਦੇ ਸਬੰਧ ਵਿੱਚ ਸੂਚਨਾਂ ਹਿੱਤ	ਭੇਜਿਆ
	ਜਾਂਦਾ ਹੈ,ਜੀ ।	milier	
		ਸਹਾਇਕ ਡਾਟਿਰੈਕਟਰ ਮੱਛੀ ਪਾਲਣ,	
		ਰੂਪਨਗਰ ।	
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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 loan 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
- 5) This Department will taken operation and maintenance of the assets created as a result of the development /execution of the proposed project under the IDIPT.

Head of the department

Head of the department (Name of the department) Punjab

#### **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, Amen buller acharder Sector - 68, Ajitgarh (Mohali) Phone: 0172-2298010, 2298000 (Ext. 2201) Fax: 0172-2298036. 190 No: To The Project Director, IDIPT, Chandigarh. Dated: 271 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 5 and IDIPT. It is further submitted that: This department strongly recommends this Project. 1. 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. olipenchasy 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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Test certificate shall not be reproduced in full or part & cannot be used as an evidence in the courts of law without the written approval of the laboratory.
 Samples will be destroyed after one month from the date of test report unless otherwise specified Samples liable to decompose will be destroyed after testing.

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

A NU. PIULU (420 Government of Punjab Department of Forests and Wildlife Preservation 14 11572072 O/o Chief Wildlife Warden, Punjab, Delos 7 Forest Complex, 2nd Floor, 2 No. Tower, Sector - 68, Ajltgarh (Mohall) Phone: 0172-2298010, 2298000 (Ext. 2201) Fax: 0172-2298036. PHTO 1142. No: To The Project Director, IDIPT, Chandigarh. Dated: 24 5/13 3 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.

	5/4: Eco-Tourism Develop				
	Nois	e Quali	ity Monitorin	g	
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		TEST	REPORT	anois.com	
To, The	Project Manager	16.25	Lab. ID No.	: U1	ALAB/5416/9b
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# NoC/ clearance from Cultural Affairs, Archaeology and Museums, Punjab for Qila Mubarak

It is certified that there is n	to objection if the propos	ed project
QILA MUBARAK	(name of the project )	
s executed by PHTPB of the To	urism Department (Punj	ab) as per the guide lines of
Govt. of India and ADB loan fund	led projects under IDIPT	at PATIALA
	~ ~	2
	details of land/area/ building	)
		~~~~~
Place: Chandigarh Date: 27/8/14		(Official Stamp)
5	Counter Signed	Director, Cultral Affairs Archaeology & Museums, Punjab, Chandigarh
1	6	
	Deputy Commissioner Deputy Commissioner	sione

CERT	FICATE AND UNDER	TAKING
It is certified that: -		
1. The Q. I.A. MUBAR	AK. PATTALA alts of land/orea/ building)	Where
execution by PHTPB of the To DEPT: OF LULTURE under the possession of	name of the project ) ourism Department (P (Details of the owner)	MK., PATIALA
Dept. of Cu	ltural Affair	ظ،
2. There is NO encroachmer	nt and NO resettlem	ent/displacement/rehabilitation of
people involved in the above Pr	oposed Project area/bu	uilding/land.
<ol> <li>The proposed Project is not other scheme/programme of the</li> </ol>		ny other project funded under any r any external funding.
4. The assets created as a resi over for operation and maintena Dupt of Cull	ince by	above stated project will be taken
Place: Mandianel	Signat	uro
Place: Chandigarh Date: 27/8/14		epartment/Organisation/Owner
a stated		Official Stamp)
	Counter Signed	Director, Cultral Affairs Archaeology & Museums, Punjab, Chandigarh
		and the second
	Deputy Commission	er

PACKAGE 6	/5: Patiala Her	itage Conservati Muba		ism Development Project (Qila
		Noise Quality		]
Not the second s	A GOVT. A	APPROVED TEST HOUSE	G HOUSI	
Works & H	In the second se	ALVSIS REPORT	5-2322224, 2320175 (M)	92164-21540, 92161-21540 Email : itlchpatiala@
	1. Laboratory S	ample No	V.	
	2. Issued To	ampie no.	ITL/11-16/210 Civil Engineer	
	3. Project	And the	Project Implen #320,Glani Zla Patiala Heritage	nentation Unit-Ropar I Singh Nagar,Ropar.
) _	4. Type of sample		Noise Level	barak)-Ref. No. PIU-Ropar/Tr-3/QM/2016/25
tii s	5. Date of sampli	ng	24/11/2016	30 X 0
		A State of the	Test Results	and a second
	NO.	loise Measurement		Noise Level in dB(A) DayTime (Leq)
	1. Near construct	tion site	- SPIC	60
	2. At qila	1 M 1 1	A	327
	Requi	latory Standards	Trail in	50
	lin n	espect of Noise	Way In	65dB (A)
	ANALYST NOTE: 1. Total liability of ou 2. Report is valid for 3. Sample with set	r laboratory is limited to the invoiced a self-monitoring purposes of the indu stroyed after one month from the date billed to Patial interfection	The state	AUTHORIZED SIGNATORY
	<ol> <li>This report is not without our specia</li> <li>Party asked for the</li> </ol>	bject to Patial juridiction. to be produced wholly or in part as permission in writing. above parameters only.	evidence in the court of law	and should not be used in any advertising media:

	Ambien		anty	1004200.00 1-13580.00000
Charles Contraction	INDUSTRIAL TE & CONSULTING (A GOVT. APPROVED TEST HOUSE)	STIN HOU	G LAB SE	ORATORY
d. Office	e : Ghalori Gate, Patiala (Pb.) 147 001 Ph. : 0175-232	22224 232017	5 (M) 02164.215	40 02464 24540 F
	( ),	LLL4, LJL011	J (m) 32104-215	40, 92161-21540 Email : itichpai
		à m		
EVAINE	IEXTRARYOUALINY MONITORIAL AVALYSIS FILLERY			- CHEATER MONTHAND
Test I Dispa	Report No. : ITL/ED/11.28.01 atch Date : 28/11/2016	as magned		
Cispo				
1.	Laboratory Sample No.	1 171 144 44		Anternation Description
2.	Issued to	ITL/11-16/210/01 Civil Engineer,		
		Project In	plementation Unit	Ropar
3.	Project	#320,Gian Patiala He	I Zial Singh Nagar	Ropar. and Tourism Development
4.	Type of Sample	Project(Qil	a Mubarak)-Ref. No	. PIU-Ropar/Tr-3/QM/2016/26
5.	Date of commencement of sample	Ambien 24/11/201	t Air Quality Mo	onitoring
6.	Location of Sample Collection	10 10 10 TO TO TO	onstruction site	
S 1.74		t Results	instruction site	to the second
Sr.	Parameters	Results	Regulatory	Test method
No.			Standards (NAAQS)	at da na hi
1.	PM -10, (µg/m³)	90	100	IS 5182(Part-23) : 2006
2.	PM -2.5, (µg/m³)	45	60	IS 5182(Part-23) : 2006
3.	Oxides of Sulphur SO2 , (µg/m3)	9.0	80	IS 5182(Part-2) : 2001
4.	Oxides of Nitrogen NO <sub>2</sub> , (µg/m <sup>3</sup> )	17.7	80	IS 5182(Part-6) : 2006
5.	Carbon monoxide CO, (mg/m3)	N.D.	2.0	CO meter
ND: No	t Detected.	1000	esour	Air-contraction
		alo tel		
			a datati si larres E-	inter contraction
		TIGN		-Martin Contract Jacob
		13Chan	121	1.1
		3 Some	edito	a march
		11.51	151	line in
N	and the second	10	/"	18251
ANALY	/ST	C.	A.	AUTHORIZED SIGNATORY
ANALI	rst .	L.	Ret .	AUTHORIZED SIGNATORY
ANALY	Total liability of our laboratory is limited to the involved		Ath:	AUTHORIZED SIGNATORY
1. 2.	Report is valid for self -monitoring numpers of the industry of	unha .	Ath:-	. t.
1. 2. 3. 4.	Sample will be destroyed after one month from the date of is: All disputes are subject to Patiala jurisdiction	only. sue of test certifi		specified.
1. 2. 3. 4. 5.	Sample will be destroyed after one month from the date of is: All disputes are subject to Patiala jurisdiction. This report is not to be produced wholly or in part as evid without our special cermission in writing.	only. sue of test certifi		specified.
1. 2. 3. 4.	Sample will be destroyed after one month from the date of is: All disputes are subject to Patiala jurisdiction. This report is not to be produced which or in part as and	only. sue of test certifi		specified.
1. 2. 3. 4. 5.	Sample will be destroyed after one month from the date of is: All disputes are subject to Patiala jurisdiction. This report is not to be produced wholly or in part as evid without our special cermission in writing.	only. sue of test certifi		specified.
1. 2. 3. 4. 5.	Sample will be destroyed after one month from the date of is: All disputes are subject to Patiala jurfadiction. This report is not to be produced wholly or in part as evid without our special permission in writing. Party asked for the above parameters only.	only. sue of test certifi		specified.
1. 2. 3. 4. 5.	Sample will be destroyed after one month from the date of is: All disputes are subject to Patiala jurisdiction. This report is not to be produced wholly or in part as evid without our special cermission in writing.	only. sue of test certifi		specified.

PACKAGE 7/7: Establishment of Culture		ilities and Infras Sahib (Civil Wor	
	bise Quality		
ENVIRON (N Plot No. 62, 1 <sup>st</sup> Sector Tele. 9463	ABL ACCH Floor, JLPL r 82, S.A.S. N 3000081, Mob	1 LABU	, Airport Road, Punjab 94172-20081
· · · ·			
	TEST RE	EPORT	
REPORT NO. ETL/26/2016-17/1317	7A		
<ol> <li>Laboratory Sample No.</li> </ol>		ETL/05/20	Date-27.12.2016 016-17/1324A
2. Name of Industry		M/S Singl	a Construction Ltd, Site-Theme mkaur Sahib, Distt Ropar,
S. Type of Sample     Date of Monitoring		Noise Mon	itoring (Day)
4. Date of Monitoring		22.12.2016	
Sr. No. Location	D II	1	
	Results (Leq)	Standards (Leq)	Test Method
1 Average Around Project Site	65	75	IS:9989 Reff.2001
Note: 1. The test report refers only to te 2. This report can neither be used in any media without prior performance	as evidence in t	d applicable -	eters. Can it be used in part or full Recurch com Kurtur (Authorized Signatory) RAMESHWAR KUMAR Tichnical Manager Environ Tech Laboratories

		ANAI	YSIS REPORT	
REPORT	NO. ETL/26/2016-17/1	317		Date-27.12.2016
1. Labo	oratory Sample No.		ETL/05/2016-17/1324	
2. Nam	ne of Industry		M/S Singla Construction Chamkaur Sahib, Distt Ro	
3. Type	e of Şample		Ambient Air Monitoring	
	e of Sample Collection		22.12.2016	
4) Tii	erage Manometer Read me period for sampling	ing : 1 : 1	tespirable Dust Sampler "3 m³/Min 440 Minute 497~3	/
4) Tii 5) Vo	me period for sampling olume of Air Sampled PARAMETERS	ing : 1 : 1 : RESULTS	.3 m³/Min 440 Minute 1.87m³ STANDARD	TEST METHOD
4) Tin 5) Vo 1.	me period for sampling blume of Air Sampled PARAMETERS PM 10	ing : 1 : 1 : RESULTS 82.1	.3 m³/Min 440 Minute 1.87m <sup>3</sup> STANDARD 100.0 μg/m <sup>3</sup>	* IS:5182(P-23)
4) Tin 5) Vo 1. 2.	me period for sampling blume of Air Sampled PARAMETERS PM 10 SO2	ing : 1 : 1 : RESULTS 82.1 3	.3 m³/Min 440 Minute 1.87m³ STANDARD 100.0 μg/m³ 80.0 μg/m³	1S:5182(P-23) IS:5182(P-2)
4) Tin 5) Vo 1. 2. 3.	me period for sampling blume of Air Sampled PARAMETERS PM 10 SO2 NO2	ing : 1 : 1 RESULTS 82.1 3 5	.3 m³/Min 440 Minute 1.87m³ STANDARD 100.0 μg/m³ 80.0 μg/m³ 80.0 μg/m³	TS:5182(P-23) IS:5182(P-2) IS:5182(P-6)
4) Tin 5) Vo 1. 2. 3. 4.	me period for sampling blume of Air Sampled PARAMETERS PM 10 SO2 NO2 PM25	ing : 1 : 1 : RESULTS 82.1 3 5 40.2	.3 m³/Min 440 Minute 1.87m <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>	TS:\$182(P-23) 15:5182(P-2) 15:5182(P-6) 15:5182(P-4)
4) Tin 5) Vo 1. 2. 3. 4. 5.	me period for sampling blume of Air Sampled PARAMETERS PM 10 SO2 NO2 PM25 CO	ing : 1 : 1 : RESULTS 82.1 3 5 40.2 ND	.3 m³/Min 440 Minute 1.87m³ STANDARD 100.0 μg/m³ 80.0 μg/m³ 60.0 μg/m³ 60.0 μg/m³ 4.0 mg/m³	IS:5182(P-23)           IS:5182(P-2)           IS:5182(P-6)           IS:5182(P-4)           IS:5182(P-10)
4) Tin 5) Vo 1. 2. 3. 4. 5. 6.	me period for sampling blume of Air Sampled PARAMETERS PM 10 SO2 NO2 PM25 CO Nickel (Ni)	ing : 1 : 1 : RESULTS 82.1 3 5 40.2 ND ND	.3 m³/Min 440 Minute 1.87m³ STANDARD 100.0 µg/m³ 80.0 µg/m³ 80.0 µg/m³ 60.0 µg/m³ 4.0 mg/m³ 20.0 ng/m³	IS:5182(P-23)           IS:5182(P-2)           IS:5182(P-6)           IS:5182(P-4)           IS:5182(P-10)           BY AAS
4) Tin 5) Vo 1. 2. 3. 4. 5. 6. 7.	me period for sampling blume of Air Sampled PARAMETERS PM 10 SO2 NO2 PM25 CO Nickel (Ni) Arsenic (As)	ing : 1 : 1 : RESULTS 82.1 3 5 40.2 ND ND ND ND	.3 m³/Min 440 Minute 1.87m³ STANDARD 100.0 μg/m³ 80.0 μg/m³ 60.0 μg/m³ 60.0 μg/m³ 20.0 ng/m³ 6.0 ng/m³	"TS:\$182(P-23) IS:5182(P-2) IS:5182(P-6) IS:5182(P-4) IS:5182(P-10) BY AAS BY AAS
4) Tin 5) Vo 1. 2. 3. 4. 5. 6. 7. 8.	me period for sampling blume of Air Sampled PARAMETERS PM 10 SO2 NO2 PM25 CO Nickel (Ni) Arsenic (As) Lead (Pb)	ing : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1	.3 m³/Min 440 Minute 1.87m³ STANDARD 100.0 μg/m³ 80.0 μg/m³ 80.0 μg/m³ 60.0 μg/m³ 60.0 μg/m³ 20.0 ng/m³ 6.0 ng/m³ 1.0 μg/m³	"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)
4) Tin 5) Vo 1. 2. 3. 4. 5. 6. 7. 8. 9.	me period for sampling dume of Air Sampled PARAMETERS PM 10 SO2 NO2 PM25 CO Nickel (Ni) Arsenic (As) Lead (Pb) Banzene (C6H6)	ing : 1 : 1 : 2 RESULTS 82.1 3 5 40.2 ND ND ND ND ND ND ND	.3 m³/Min 440 Minute 1.87m³ STANDARD 100.0 μg/m³ 80.0 μg/m³ 80.0 μg/m³ 60.0 μg/m³ 20.0 ng/m³ 6.0 ng/m³ 1.0 μg/m³ 5.0 μg/m³	"IS:\$182(P-23)         IS:\$182(P-2)         IS:\$182(P-6)         IS:\$182(P-4)         IS:\$182(P-10)         BY AAS         BY AAS         IS:\$182(P-22)         IS:\$182(P-21)
4) Tin 5) Vo 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Bei	me period for sampling dume of Air Sampled PARAMETERS PM 10 SO2 NO2 PM25 CO Nickel (Ni) Arsenic (As) Lead (Pb) Banzene (C6H6) mzo(a)pyrene (BaP)	ing : 1 : 1 : 2 RESULTS 82.1 3 5 40.2 ND ND ND ND ND ND ND ND ND ND	.3 m³/Min           440 Minute           1.87m³           STANDARD           100.0 µg/m³           80.0 µg/m³           60.0 µg/m³           4.0 mg/m³           20.0 ng/m³           6.0 ng/m³           1.0 µg/m³           1.0 µg/m³           1.0 µg/m³	"IS:\$182(P-23)           IS:\$182(P-2)           IS:\$182(P-6)           IS:\$182(P-4)           IS:\$182(P-10)           BY AAS           IS:\$182(P-22)           IS:\$182(P-11)           BY G.C
4) Tin 5) Vo 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Bei	me period for sampling dume of Air Sampled PARAMETERS PM 10 SO2 NO2 PM25 CO Nickel (Ni) Arsenic (As) Lead (Pb) Banzene (C6H6)	ing : 1 : 1 : 2 RESULTS 82.1 3 5 40.2 ND ND ND ND ND ND ND	.3 m³/Min 440 Minute 1.87m³ STANDARD 100.0 μg/m³ 80.0 μg/m³ 80.0 μg/m³ 60.0 μg/m³ 20.0 ng/m³ 6.0 ng/m³ 1.0 μg/m³ 5.0 μg/m³	"IS:\$182(P-23)           IS:\$182(P-2)           IS:\$182(P-6)           IS:\$182(P-4)           IS:\$182(P-10)           BY AAS           BY AAS           IS:\$182(P-22)           IS:\$182(P-21)

JKA	GE 8/	9: Structures Conservatio				
		Noise	e Qual	ity Monitoring		
ESTING	$\geq$	Inductrial Tastin	or I o	honotom &	Conculting Hou	
SUTING	100	Industrial Testin	ig La	boratory & C	onsulting Hou	ise
	SA)		(A Govt	. Approved Laboratory	)	_
ONI	Ì			analysis Depart		
0 9001 :	2008		L^	Analysis Report		
	NOIS	E LEVEL MONITORING ANALYSIS REP	ORT			
		Report No. : ITL/ED/04				
	Dispa	Itch Date : 26/12/2016				
	_			A loss of the second		
	1.	Laboratory Sample No.	(1997) 1997	ITL/12-16/232/02	and the second second	
	<i>2.</i>	Issued to		M/S CONSTRUCTION TECH RAJDEEP J.V. MAHARASH	HNIQUE	
	-			(GOBINDGARH FORT)	IIRA	
	3.	Name of sample collecting officer Type of sample	_	By Lab Representative		
	5.	Date of sample collection		Noise Level 20/12/2016		
	7.	Location of sample collection		Inside Gobindgarh Fort Amri	Isar	
			Tee	t Results		
	SN	Location of Sample Collection	1995		and the second	
	1.	Inside Fort	NO	ise Level - Day Time (Leq)	Test Method	
		and the second sec	-	61.7	IS:9989:1981 R-2002	
	Regu	atory Standards		65 dB (A)	10.0000, 1001 14-2002	
			N			
		<i>a</i>				
					and the second	1
	10				( Ba	
	the.					/
	ANALYS	51			AUTHORIZED SIGN	ATORY
					(OH 9 TH)	
					(QM & TM)	
	NOTE	Total Dability of any laboration of the state				
		<ol> <li>Total liability of our laboratory is limited to the Report is valid for selfmonitoring purposes of Sample will be determined in the self.</li> </ol>	of the indus	try only as not only remember of	tortion are 1092	
		<ul> <li>Sample will be destroyed after one month trop</li> </ul>	m the date /	ht issue of fast partitiants unlass	after an an and the second at the second	
	8	This report is not to be produced wholly or in media without our special permission in writing	n part as ar	evidence in the court of law and	d should not be used in any advertising	
		Net (Protection Contesting), in the contesting water and the 1990 March 1990 Contesting of the Contest	cod".			
		Ghalori Gate. Patiala (Pb.)				

	Ambi	ent Air Q	uality Mon	itoring
PRORATOR	Industrial Test	— (A Govt	borator Approved Lal	
: 2008			inalysis Repo	int
Test	IENT AIR QUALITY MONITORING R Report No. : ITL/ED/03 atch Date : 26/12/2016	EPORT	-	
1.	Laboratory Sample No.		ITL/12-16/232/0	и
2.	Issued to		M/S CONSTRU	CTION TECHNIQUE MAHARASHTRA
3.	Name of sample collecting officer		By Lab Represe	
4.	Type of sample		Ambient Air Qua	
5.	Date of sample collection		20/12/2016	any womoning
6.	Date of sample receipt in lab			0.00 am:
7.	Location of sample collection			
1.197		Tes	21/12/2016 at 1 Inside Gobindga	0.00 am ·anh Fort Amritsar
SN	Parameters	Results	Regulatory Standards (NAAQS)*	Test Method followed
1.	Particulate Matter, (size <10 µm),or PM 10, µg/m <sup>3</sup>	71	100	IS: 5182 (Part-23) 2006,(RA2009)
2.	Particulate Matter,	54	60	IS: 5182(Part-23) 2006,(RA2009)



(QM & TM)

(size <2.5 µm),or PM 2.5,µg/m3

Sulphur Dioxide, (SO2), µg/m3

Nitrogen Dioxide, (NO2), µg/m3

Carbon Monoxide,(CO),mg/m3

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

16

21

BDL

80

80

2.0

IS:5182 (Part 2) : 2001,(RA 2012)

IS:5182 (Part 6) :2006,(RA 2012)

IS:5182 (Part 10) 1999,(RA 2003)

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

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



3.

4.

5.

ackage 13 all	20: Conservation and adap	ptive reuse of colonial h	eritage in Kapurthala - Da	arba
		Noise Quality		
SO 9001 : 2008		Govt. Approved Laboratory) Analysis Report	•	
Te	DISE LEVEL MONITORING ANALYSIS REPO st Report No. : ITL/ED/08 spatch Date : 26/12/2016	RT		
1.	Laboratory Sample No. Issued to	ITL/12-16/232/02 M/S RAJPUTANA CONS PARIVAHAN MARG, C- S	TRUCTIONS (P) LTD. 13,	
3.	Name of sample collecting officer Type of sample	RAJASTHAN By Lab Representative Noise Level		
5.	Date of sample collection	19/12/2016		
SN	Location of Sample Collection	Test Results		
1.		Noise Level - Day Time (Leq)	Test Method	
	Darbar Hall (Kapurthala) gulatory Standards	53.5 65 dB (A)	IS:9989:1981 R-2002	
	Day time shall mean from 6.00a.m. to 10.00 P	.w. wgnt time shall mean from 6.00a.	m. to 10.00 P.M.	
	8 - <sup>1</sup>			
ANAL	YST		AUTHORIZED SIGNATORY	,
			(QM & TM)	
NOTE	<ol> <li>Total liability of our laboratory is limited to the in</li> <li>Report is valid for selfmonitoring purposes of</li> <li>Sample will be destroyed after one month from</li> <li>This report is not to be produced wholly or in ; media without our special permission in writing.</li> </ol>	the industry only as per environmental pro- the date of issue of test certificate unless of part as an evideore in the court of less		
	Ghalori Gate, Patiala (Pb.) Ph Email : itlchpatiala@gi	n. 0175-2320175, 2322224, (M) 99 mail.com Website : www.itlch.c	155-84242 com	

ORA			Approved Lat	y & Consulting Hou	
5)					
800		A	nalysis Repo	ort	
_					
AMB	IENT AIR QUALITY MONITORING R Report No. : ITL/ED/07	REPORT			
Dispa	atch Date : 26/12/2016				
1.	Laboratory Sample No.				
2.	Issued to		ITL/12-16/232/01 M/S RAJPUTANA CONSTRUCTIONS (P) LTD. 13,		
			PARIVAHAN	MARG, C- SCHEME JAIPUR,	
3.	Name of sample collecting officer		By Lab Represe	entative	
4.	Type of sample Date of sample collection		Ambient Air Qu 19/12/2016	ality Monitoring	
6.	Date of sample receipt in lab		21/12/2016 at 1	0.00 am	
7.	Location of sample collection		Darbar Hall (Ka		
		Tes	t Results		
SN	Parameters	Results	Regulatory Standards (NAAQS)*	Test Method followed	
1.	Particulate Matter, (size <10 µm),or PM 10, µg/m <sup>3</sup>	61	100	IS: 5182 (Part-23) 2006,(RA2009)	
2.	Particulate Matter, (size <2.5 µm),or PM 2.5 µg/m <sup>3</sup>	48	60	IS: 5182(Part-23) 2006,(RA2009)	
3.	Sulphur Dioxide, (SO <sub>2</sub> ), µg/m <sup>3</sup>	09	80	IS:5182 (Part 2) : 2001,(RA 2012)	
4.	Nitrogen Dioxide,(NO2), µg/m3	14	80	IS:5182 (Part 6) :2006,(RA 2012)	
5.	Carbon Monoxide,(CO),mg/m <sup>3</sup>	BDL	2.0		
	ourout monoxide,(oo), mg/m*	DUL	2.0	IS:5182 (Part 10) 1999,(RA 2003)	
NAAQ	S:-National ambient air quality standar	ds, BDL - Belov	w Detection Limits		
				et51mmg	
10				Par	
NALV	ST.				
				AUTHORIZED SIGN	
				(QM & TM)	
IOTE: -	1. Total liability of our laboratory is limited	to the involced ar	nount.		
4 73	<ol> <li>Report is valid for selfmonitoring purplication in the second s</li></ol>				
	This report is not to be produced whole	V OF IN Datt as an	evidence in the cou	cale unless otherwise specified. If of law and should not be used in any advertising	
4	media without our special permission in	and the second			

		Nois	e Quality		
BORA	Industrial Testin	~	boratory & C	0	ous
5)		_			
08		A	Analysis Report		
NOIS	SE LEVEL MONITORING ANALYSIS REP	PORT	1		
	Report No. : ITL/ED/10 atch Date : 26/12/2016				
Biopt	2012/2010				
1.	Laboratory Sample No	-	171 440 401000100		
2.	Laboratory Sample No. Issued to		ITL/12-16/232/02 M/S CONSTRUCTION TE	CHNIQUE	
3.	Name of sample collecting officer		By Lab Representative	CHNIQUE	-
4.	Type of sample	-	Noise Level		
0.	Date of sample collection		19/12/2016		
		Te	st Results		
SN	Location of Sample Collection	No	bise Level - Day Time (Leq)	Test Method	
1.	Town Hall (Amritsar)		51.8		-
Regu	latory Standards		05 10 111	IS:9989:1981 R-2002	
*Leq:	Leq: denotes the time weighted average o It is energy mean of the noise level over the Day time shall mean from 6.00a.m. to 10.00	e specifier	1 period	(A) which is relatable to huma	an
*Leq:	It is energy mean of the noise level over the	e specifier	l of sound in decibels on scale	(A) which is relatable to huma	an
*Leq:	It is energy mean of the noise level over the	e specifier	l of sound in decibels on scale	(A) which is relatable to huma	an
*Leq:	It is energy mean of the noise level over the	e specifier	l of sound in decibels on scale	(A) which is relatable to huma	an
*Leq:	It is energy mean of the noise level over the	e specifier	l of sound in decibels on scale	(A) which is relatable to huma	an
*Leq:	It is energy mean of the noise level over the	e specifier	l of sound in decibels on scale	(A) which is relatable to huma	an
*Leq:	It is energy mean of the noise level over the	e specifier	l of sound in decibels on scale	(A) which is relatable to huma	an
*Leq:	It is energy mean of the noise level over the	e specifier	l of sound in decibels on scale	(A) which is relatable to huma m. to 10.00 P.M.	an
*Leq:	It is energy mean of the noise level over the	e specifier	l of sound in decibels on scale d period. ht time shall mean from 6.00a.	(A) which is relatable to huma m. to 10.00 P.M.	an
*Leq:	It is energy mean of the noise level over the	e specifier	l of sound in decibels on scale d period. ht time shall mean from 6.00a.	(A) which is relatable to huma m. to 10.00 P.M.	an
*Leq:	It is energy mean of the noise level over the	e specifier	l of sound in decibels on scale d period. ht time shall mean from 6.00a.	(A) which is relatable to huma m. to 10.00 P.M.	an
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*Leq:	It is energy mean of the noise level over the	e specifier	l of sound in decibels on scale d period. ht time shall mean from 6.00a.	(A) which is relatable to huma m. to 10.00 P.M.	SIGNATO
*Leq:	It is energy mean of the noise level over the	e specifier	l of sound in decibels on scale d period. ht time shall mean from 6.00a.	(A) which is relatable to huma m. to 10.00 P.M.	SIGNATO
Note: [	t is energy mean of the noise level over the Day time shall mean from 6.00a.m. to 10.00 ST	e specified D P.M. Nig	I of sound in decibels on scale d period. ht time shall mean from 6.00a.	(A) which is relatable to huma m. to 10.00 P.M. AUTHORIZED (QM & TM	SIGNATO
Note: [	<ol> <li>Total liability of our laboratory is limited to the comparent of the second seco</li></ol>	e specified D P.M. Nig	I of sound in decibels on scale d period. ht time shall mean from 6.00a.	(A) which is relatable to huma m. to 10.00 P.M. AUTHORIZED (QM & TM	SIGNATO
Note: [ NALY:	<ol> <li>Total liability of our laboratory is limited to the Report is valid for selfmonitoring purposes of Sample will be destroyed after one month from</li> </ol>	e specified D P.M. Nig e invoiced a of the indus in the date in ord the area	I of sound in decibels on scale d period. ht time shall mean from 6.00a.	(A) which is relatable to huma m. to 10.00 P.M. AUTHORIZED (QM & TM	SIGNAT(
Note: [ NALY:	<ol> <li>Total liability of our laboratory is limited to the comparison of the rest of the comparison of the compari</li></ol>	e specified D P.M. Nig e invoiced a of the indus in the date in ord the area	I of sound in decibels on scale d period. ht time shall mean from 6.00a.	(A) which is relatable to huma m. to 10.00 P.M. AUTHORIZED (QM & TM	SIGNAT(

(A)	Industrial Testin	ng Lal	orator	y & Consulting House
BORAT		-	Approved Lab	
Ý		A	nalysis Repo	rt
008			nary and repo	IX
AMB	IENT AIR QUALITY MONITORING REP	ORT	٦	
Test	Report No. : ITL/ED/09			
Dispa	atch Date : 26/12/2016			
1.	Laboratory Sample No.	1000	ITL/12-16/232/0	И
2.	Issued to			UCTION TECHNIQUE
3.	Name of sample collecting officer		By Lab Represe	entative
4.	Type of sample Date of sample collection	_	Ambient Air Qua	ality Monitoring
6.	Date of sample receipt in lab		20/12/2016 21/12/2016 at 1	0.00 am
7.	Location of sample collection		Town Hall (Amr	
-		Test	Results .	
SN	Parameters	Results	Regulatory Standards (NAAQS)*	Test Method followed
1.	Particulate Matter, (size <10 µm),or PM 10, µg/m <sup>3</sup>	58	100	IS: 5182 (Part-23) 2006,(RA2009)
2.	Particulate Matter, (size <2.5 µm),or PM 2.5,µg/m <sup>3</sup>	39	60	IS: 5182(Part-23) 2006,(RA2009)
3.	Sulphur Dioxide, (SO <sub>2</sub> ), µg/m <sup>3</sup>	07	80	IS:5182 (Part 2) : 2001,(RA 2012)
4.	Nitrogen Dioxide, (NO2), µg/m3	12	80	IS:5182 (Part 6) :2006,(RA 2012)
5.	Carbon Monoxide,(CO),mg/m3	BDL	2.0	
	A strugger	UUL	2.0	IS:5182 (Part 10) 1999,(RA 2003)
'NAAQ	S:-National ambient air quality standards,	BDL - Below	v Detection Limits	
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Jan Star				
ANALYS	Ĩ			AUTHORIZED SIGNATO
ANALYS	Τ			
ANALYS	ST			AUTHORIZED SIGNATOR (QM & TM)
ANALYS	ST Total liability of our laboratory is limited to r	he invoiced an	noent	(QM & TM)
1	ST Total liability of our faboratory is limited to the Report is valid for selfmonitoring purpose	d of the industr	nu onlu no nos natilitas	(QM & TM)
3	<ul> <li>Meport is valid for self -monitoring purpose.</li> <li>Sample will be destroyed after one month fr This report is not to be produced wholly or</li> </ul>	s of the industr rom the date of r in part as an	ry only as per enviro	(QM & TM)
3	<ul> <li>Meport is valid for selfmonitoring purpose.</li> <li>Sample will be destroyed after one month fr</li> </ul>	s of the industr rom the date of r in part as an	ry only as per enviro	(QM & TM)
3	<ul> <li>Meport is valid for self -monitoring purpose.</li> <li>Sample will be destroyed after one month fr This report is not to be produced wholly or</li> </ul>	s of the industr rom the date of r in part as an	ry only as per enviro	(QM & TM)