

**Table-1: Pre-Construction Phase Environmental Management Plan for RLC Seraj**

<b>Sl. No.</b>	<b>Environmental Issues</b>	<b>Mitigation Measures</b>	<b>Parameters (Indicators for Compliance)</b>	<b>Responsible for Implementation</b>	<b>Responsible for Supervision</b>	<b>Frequency for Monitoring</b>	<b>Sources of Fund for Implementing Mitigation Measure</b>
<b>1</b>	Lack of sufficient planning to assure long term sustainability of the improvements and ensure protection of the assets created.	Design has included provisions for ensuring effective maintenance and protection of the assets to be created so as to ensure the long term sustainability. The long term sustainability has been ensured by taking into consideration appropriate Bureau of Indian Standards Codes (BIS) for design, Seismic Zone V coefficient, appropriate wind load factor (corresponding to 39 m/s wind speed), and detailed design after carrying geotechnical investigations and topographic survey at RLC Seraj site.	Verification of site specific design parameters	PWD	PMU and PMC	Review after completion of DPR	Part of PWD and PMC Professional Fee
<b>2</b>	Layout of components to avoid impacts on the aesthetics of the of the RLC site and surroundings	The site and layout of RLC have been finalized at vacant land under the ownership of DORD, GOHP. The exterior of RLC building will well mix with the existing buildings.	RLC Seraj building's exteriors	PIU and PWD	PMU and PMC	Review after completion of detailed design	Part of PWD and PMC Professional Fee
<b>3</b>	Slope stability related issues	The RLC Seraj site is flat, however, during construction any exposed slopes at excavated areas	Slope protection measures on side slopes of	PIU and PWD	PMU and PMC	Review of recommended slope protection	Part of PWD and PMC Professional Fee

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		will be covered and slope protection measures will be provided specially at side slopes of internal roads.	access path, internal roads, etc.			measures	
4	Increased storm water runoff from alterations of the site's natural drainage patterns due to landscaping, excavation works, construction of parking lot, and addition of paved surfaces	Design of proposed RLC building at Bijahi enables efficient drainage of the plot. The storm water generated will be diverted to local drain through a properly constructed drainage system. Since RLC site is in hilly region, therefore, there is swift flow and drainage is not an issue.	Arrangement for proper diversion of storm water runoff	PIU and PWD	PMU and PMC	After mobilization of contractor at the RLC site and during establishment of construction camp.	Incidental to construction cost
5	Integration of energy efficiency and energy conservation programs in design of sub-project components	The detailed design for the proposed RLC at Bijahi has ensured the environmental sustainability principles, including energy efficiency, resource recycling, waste minimization, etc. The design considers the following energy efficiency measures: <ul style="list-style-type: none"> <li>• Usage of recyclable materials like wood substitutes.</li> <li>• Installation of BEE certified equipment</li> <li>• Usage of energy efficient lighting fixtures (LED )</li> </ul>	Specifications of rain water harvesting structures, electrical fixtures, details of water heating system	PIU and PWD	PMU and PMC	During finalization of detailed design	Part of project cost

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		<ul style="list-style-type: none"> <li>Provision of P-V cells on roof top for solar power.</li> </ul>					
6	Consents, permits, clearances, no objection certificate (NOC), etc.	<p>Obtain all necessary consents, permits, clearances, NOCs, etc. prior to start of civil works.</p> <p>Acknowledge in writing and provide report on compliance all obtained consents, permits, clearances, NOCs, etc.</p>	Consents, permits, clearance and NOCs Records and communications	PIU and DORD	PMU	check consent for establishment of construction camp at RLC site, approval of RLC drawings from civic authorities any other local permission required.	Project cost
7	Establishment of baseline environmental conditions prior to start of civil works	<p>1-Conduct documentation of location of components, areas for construction zone (Camp, staging, storage, stockpiling, etc.) and surroundings (within direct impact zones). Include photos and GPS coordinates</p> <p>2- Carry out environmental monitoring at RLC site for ambient air quality, water quality and noise levels to establish baseline environmental monitoring for the parameters indicated in the monitoring plan</p>	Records and Photographs, baseline environmental monitoring results	Contractor	PIU and PWD	Once prior to start of construction works	Contractor

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8	Finalization of landscaping and tree plantation plan	Landscaping and tree plantation plan is to be prepared based on finalized and approved layout of RLC. In this plan locations of tree plantation and landscaping should be clearly marked.	Locations of tree plantation and shrubs plantation plan preparation	PIU	PMU	After finalization and approval of layout	Project cost
9	Utilities	<ul style="list-style-type: none"> <li>The locations and operators of utilities to be impacted should be identified and documented in detailed design documents to prevent unnecessary disruption of services during the construction phase.</li> <li>Require contractor to prepare a contingency plan to include actions to be done in case of unintentional interruption of services.</li> <li>Obtain from the PIUs and/or PWD the list of affected utilities and operators;</li> <li>If relocations are necessary; contractor will coordinate with the providers to relocate the utility.</li> </ul>	<p>List and maps showing utilities to be shifted</p> <p>Contingency plan for services disruption</p>	<ul style="list-style-type: none"> <li>PWD will prepare preliminary list and maps of utilities to be shifted</li> <li>During detailed design phase, contractor to (i) prepare list and operators of utilities to be shifted; (ii) contingency plan</li> </ul>	PIU and PWD	Pre-Construction Phase	Contractor
10	Social and Cultural	<ul style="list-style-type: none"> <li>Consult Archaeological</li> </ul>	Chance find	<ul style="list-style-type: none"> <li>PMC to</li> </ul>	PMU	Prior to start of	PMC

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	Resources	<p>Survey of India (ASI) or Himachal Pradesh State Archaeology Department to obtain an expert assessment of the archaeological potential of RLC site although no such potential is seen.</p> <ul style="list-style-type: none"> <li>Consider alternatives, if the RLC site, is found to be of medium or high risk.</li> </ul> <p>Include state and local archaeological, cultural and historical authorities, and interest groups in consultation forums as project stakeholders so that their expertise can be made available.</p> <ul style="list-style-type: none"> <li>Develop a protocol for use by the contractors in conducting any excavation work, to ensure that any chance finds are recognized and measures are taken to ensure they are protected and conserved.</li> </ul>	protocol	<p>consult ASI or HP State Archaeology Department</p> <ul style="list-style-type: none"> <li>PMC to develop protocol for chance finds</li> </ul>		construction activities	
11	Construction Camp-Locations, Selection, Design and Layout	Sitting of the construction Camp at RLC site shall be as per the guidelines below and details of layout to be approved by PWD.	Construction Camp sites, and locations of material storage areas,	Contractor	PWD and PIU	At the time of construction camps establishment and finalization	Contractor

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		The potential sites for labor camp and construction camp shall be identified by the contractor and this identified site shall be visited by the environmental expert of PMU safeguards cell along with environmental expert of PWD and one having least impacts on environment will be approved by the PWD and PMU. As far as possible, construction camp and labor camp will be established at vacant land in RLC plot or adjoining vacant land to avoid impact on private land. Locations for storage of construction materials shall be identified at the site or at existing building close to RLC site. Sanitation facilities at construction camps shall be adequately planned.	sanitation facilities			of storage areas	
12	Sources of construction materials	Use quarry sites and sources licensed by the GOHP.  Verify suitability of all material sources and obtain approvals from PIU.	Permits issued to quarries and sources of materials	Contractor  PMC and PWD to verify sources (including permits) if additional is requested by	PMU and PIU	Upon submission by contractor(s)	PMC and PWD as part of consultancy fee

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		If additional quarries are required after construction has started, obtain written approval from PIU. Submit to PWD on a monthly basis documentation of sources of materials.		contractor			
13	Access for Construction material transportation	<p>Plan transportation routes so that heavy vehicles do not use narrow local roads, except in the immediate vicinity of RLC site.</p> <p>Schedule transport and hauling activities during non-peak hours.</p> <p>Locate entry and exit points in areas where there is low potential for traffic congestion.</p> <p>Keep the sites free from all unnecessary obstructions.</p> <p>Drive vehicles in a considerate manner. Coordinate with the Traffic Police Department for temporary road diversions and for provision of traffic aids if transportation activities cannot be avoided during peak hours.</p>	Traffic management plan	Contractor	PIU and PWD	During Delivery of construction materials	Contractor

Sl. No.	Environmental Issues	Mitigation Measures	Parameters (Indicators for Compliance)	Responsible for Implementation	Responsible for Supervision	Frequency for Monitoring	Sources of Fund for Implementing Mitigation Measure
14	Occupational health and safety	<p>Comply with IFC EHS Guidelines on Occupational Health and Safety. Develop comprehensive site-specific health and safety (H&amp;S) plans. The overall objective is to provide guidance to contractor on establishing a management strategy and applying practices that are intended to eliminate, or reduce, fatalities, injuries and illnesses for workers performing activities and tasks associated with the project. Include in H&amp;S plan measures such as: (i) type of hazards at RLC construction site; (ii) corresponding personal protective equipment for each identified hazard; (iii) H&amp;S training for all site personnel; (iv) procedures to be followed for all site activities; and (v) documentation of work-related accidents.</p> <p>Provide medical insurance</p>	Health and safety plan (H&S)	Contractor	PMU and PMC, PIU and PWD	During Pre construction phase	Contractor



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		coverage for workers.					
15	Stakeholder consultations	Continue information dissemination, stakeholder consultations, and involvement/participation of stakeholders during project implementation.	-Disclosure records - Consultations	PMU,PMC PIU,PWD and Contractor	PMU and PMC	<ul style="list-style-type: none"> <li>• During updating of IEE Report</li> <li>• During preparation of site- and activity-specific plans as per EMP</li> <li>• Prior to start of construction</li> <li>• During construction</li> </ul>	PMU and Contractor

**Table-2: Construction Phase Environmental Management Plan for RLC Seraj**

Sl. No.	Environmental Issues	Mitigation Measures	Parameter (Indicators for Compliance)	Responsible Implementation	Responsible Supervision	Frequency for Monitoring	Sources of Fund for Implementing Mitigation Measure
1	Sanitation and drinking water facilities at construction Camp RLC Seraj	The contractor shall provide sanitation facilities at the camp site. These facilities will include dust bins in adequate numbers for solid waste collection, drinking water facilities, and	Construction camp sanitation and drinking water facilities	Contractor	PWD and PIU	Regularly during construction phase	Contractor

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		separate toilets for male and females. These toilets facilities shall be maintained and septic tanks/soak pits shall be provided at the toilets. The dust bins shall be regularly emptied and waste from camp site shall be disposed off at designated locations.					
2	Traffic Circulation plan during construction phase	Prior to commencement of site activities and mobilization on ground ,the Contractor will prepare and get approved from the Engineer (PWD), circulation plan during construction for safe passage of public vehicles so that locals are not at inconvenience. The Contractor	Safe movement of Traffic	Contractor	PWD and PIU	Every day during construction phase	Contractor

Sl. No.	Environmental Issues	Mitigation Measures	Parameter (Indicators for Compliance)	Responsible Implementation	Responsible Supervision	Frequency for Monitoring	Sources of Fund for Implementing Mitigation Measure
		with support of the PIU will carry out dissemination of these information and circulation plan at RLC site					
3	Site clearance activities, including delineation of construction area	Only ground cover shrubs, if any, that impinge directly on the permanent works or necessary temporary works shall be removed with prior approval from the Environmental Experts of PWD and PMC. All areas used for temporary construction operations will be subjected to complete restoration to their former conditions with appropriate rehabilitation procedures. The photographic records shall be maintained for the	Pre-construction records of site and vegetation in area of construction	Contractor	PWD and PIU	Duration of site preparation	PWD and PIU

Sl. No.	Environmental Issues	Mitigation Measures	Parameter (Indicators for Compliance)	Responsible Implementation	Responsible Supervision	Frequency for Monitoring	Sources of Fund for Implementing Mitigation Measure
		temporary sites used for construction. These will help in proper restoration.					
4	Drinking water availability at Construction camp and construction site	Sufficient supply of cold potable water to be provided and maintained. If the drinking water is obtained from an intermittent public water supply then storage tanks will be provided. For this contractor will submit plans how availability of drinking water shall be assured. In case it is obtained from the natural spring then permission from local authorities shall be obtained.	Water supply source and availability of water , permission of local authority if obtained from local spring	Contractor	PWD and PIU	During Construction phase regularly	Contractor
5	Waste disposal	The pre-identified disposal location shall be part of Comprehensive Waste Disposal Plan. Solid Waste Management	Waste Disposal sites, waste management plan	Contractor	PWD and PIU	Regularly during construction phase	Contractor

Sl. No.	Environmental Issues	Mitigation Measures	Parameter (Indicators for Compliance)	Responsible Implementation	Responsible Supervision	Frequency for Monitoring	Sources of Fund for Implementing Mitigation Measure
		Plan to be prepared by the Contractor in consultation with local civic authorities. The Environmental Specialist of PWD shall approve these disposal sites after conducting a joint inspection on the site with the Contractor. Contractor shall ensure that waste shall not be disposed off near water stream in the surroundings of site and along the access path.					
6	Stockpiling of construction materials	Stockpiling of construction materials will be done in such a way that it does not impact and obstructs the drainage. The stockpiles will be covered to protect from dust and erosion.	Stockpiling sites at RLC Seraj site	Contractor	PWD and PIU	Regularly during construction phase	Contractor

<b>Sl. No.</b>	<b>Environmental Issues</b>	<b>Mitigation Measures</b>	<b>Parameter (Indicators for Compliance)</b>	<b>Responsible Implementation</b>	<b>Responsible Supervision</b>	<b>Frequency for Monitoring</b>	<b>Sources of Fund for Implementing Mitigation Measure</b>
<b>7</b>	Arrangement for Construction Water	(i) The Contractor shall provide a list of locations and type of sources from where water for construction shall be acquired. (ii)The contractor shall use ground/surface water as a source of water for the construction with the written consent from the concerned Department. (iii)To avoid disruption/ disturbance to other water users, the Contractor shall arrange water from market or from local municipality and consult PWD before finalizing the source.	Water availability at identified water source locations	Contractor	PWD and PIU	Regularly during construction phase	Contractor
<b>8</b>	Soil Erosion	Slope protection measures will be undertaken as per design to control soil erosion especially on side slopes of	Locations of slope protection	Contractor	PIU and PWD		Contractor

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		access and internal roads.					
9	Water Pollution from Construction Wastes	The Contractor shall take all precautionary measures to prevent entering of waste water into local stream during construction.	Sub-project site	Contractor	PIU and PWD	Regularly during construction phase	Contractor
10	Water Pollution from Fuel and Lubricants	1-The Contractor shall ensure that all construction vehicle parking locations, fuel/lubricants storage sites, vehicle, machinery and equipment maintenance and refueling site shall be located at least 500 m away from the natural stream. 2-Contractor shall ensure that all vehicle/machinery and equipment operation, maintenance and refueling shall be carried out in such a manner that spillage of	Vehicle parking, refueling sites, Oil interceptor functioning	Contractor	PIU and PWD	Regularly during construction phase	Contractor

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		<p>fuels and lubricants does not contaminate the ground.</p> <p>3- Waste water from vehicle parking, fuel storage areas, workshops, wash down and refueling areas shall be treated in an oil interceptor before discharging it on land or into surface water bodies or into other treatment system.</p> <p>4-The monitoring of ground and surface water quality will be taken up as per monitoring plan.</p>					
11	Soil Pollution due to fuel and lubricants, construction wastes	The fuel storage and vehicle cleaning area will be stationed such that spillage of fuels and lubricants does	Vehicle maintenance and parking area, soil quality monitoring results	Contractor	PIU and PWD	Regularly during construction phase	Contractor



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		not contaminate the ground. Soil and water pollution parameters will be monitored as per monitoring plan.					
<b>12</b>	Siltation of water bodies due to spillage of construction wastes	No disposal of construction wastes will be carried out into the surface water bodies. Extraneous construction wastes will be transported to the pre-identified disposal sites for safe disposal.	Water bodies specially natural streams	Contractor	PIU and PWD	Regularly during construction phase	Contractor
<b>13</b>	Generation of dust	The contractor will take every precaution to reduce the levels of dust at construction site. All filling works to be protected/ covered in a manner to minimize dust generation. In order to minimize impacts on Bijahi village, the RLC	Sub-project site, air quality monitoring results	Contractor	PIU and PWD	Regularly during construction phase	Contractor

Sl. No.	Environmental Issues	Mitigation Measures	Parameter (Indicators for Compliance)	Responsible Implementation	Responsible Supervision	Frequency for Monitoring	Sources of Fund for Implementing Mitigation Measure
		site will be properly barricaded with prefabricated MS sheets of adequate height (3-4 m).					
14	Emission from Construction Vehicles, Equipment and Machinery	All vehicles, equipment and machinery used for construction shall conform to the relevant Bureau of India Standard (BIS) norms. The discharge standards promulgated under the Environment Protection Act, 1986 shall be strictly adhered to. The silent/quiet equipment available in the market shall be used in the RLC construction. The Contractor shall maintain a record of PUC for all vehicles and machinery used	PUC certificates of vehicles and machinery	Contractor	PIU and PWD	Regularly during construction phase	Contractor

Sl. No.	Environmental Issues	Mitigation Measures	Parameter (Indicators for Compliance)	Responsible Implementation	Responsible Supervision	Frequency for Monitoring	Sources of Fund for Implementing Mitigation Measure
		during the contract period which shall be produced for verification whenever required.					
15	Noise Pollution	The Contractor shall confirm that all Construction equipment used in construction shall strictly conform to the MoEFCC and CPCB noise standards and all vehicles and equipment used in construction shall be fitted with exhaust silencers. At the construction sites noisy construction work such as crushing, operation of DG sets, use of high noise generation equipment shall be stopped during the night time between 10.00 pm to 6.00 am.	Certificates of vehicles conforming noise standards, noise monitoring results	Contractor	PWD and PIU	Regularly during construction phase	Contractor

Sl. No.	Environmental Issues	Mitigation Measures	Parameter (Indicators for Compliance)	Responsible Implementation	Responsible Supervision	Frequency for Monitoring	Sources of Fund for Implementing Mitigation Measure
		Noise limits for construction equipment used in this project will not exceed 75 dB (A). The RLC site will be properly barricaded with MS Sheets of adequate height to avoid impacts of noise generated due to construction activities.					
16	Impacts on flora and fauna	Minimize impacts on flora and fauna during construction phase by limiting site clearance bare minimum and limiting all types of pollution generation. Take compensatory plantation works and shrubs plantation works at the end of construction as per landscape plan and tree plantation prepared in pre construction	Environmental monitoring reports, Trees and shrubs planted at RLC site	Contractor	PWD and PIU	Regularly during construction phase	Contractor

Sl. No.	Environmental Issues	Mitigation Measures	Parameter (Indicators for Compliance)	Responsible Implementation	Responsible Supervision	Frequency for Monitoring	Sources of Fund for Implementing Mitigation Measure
		phase.					
17	Material Handling at Sub-Project site	<p>Workers employed on mixing cement, lime mortars, concrete, etc., will be provided with protective footwear and protective goggles. Workers, who are engaged in welding works, will be provided with welder's protective eye-shields.</p> <p>The use of any toxic chemical will be strictly in accordance with the manufacturer's instructions. The PWD will be given at least 6 working days' notice of the proposed use of any chemical. A register of all toxic chemicals delivered to the</p>	Data on available personal protective equipment	Contractor	PWD and PIU	Regularly during construction phase	Contractor

Sl. No.	Environmental Issues	Mitigation Measures	Parameter (Indicators for Compliance)	Responsible Implementation	Responsible Supervision	Frequency for Monitoring	Sources of Fund for Implementing Mitigation Measure
		site will be kept and maintained up to date by the Contractor.					
18	Disposal of Construction Waste, and Debris	The Contractor shall confirm that safe disposal of the construction waste will be ensured in the pre-identified disposal locations. In no case, any construction waste will be disposed off around the RLC site	Disposal site	Contractor	PIU and PWD	Regularly during construction phase	Contractor
19	Onsite emergency plan for minor accidents and mishaps and Disaster Management Plan for Natural Calamities	The onsite emergency plan will be prepared by the contractor in consultation with PWD and PMC. For natural calamities, disaster management plan prepared by the PWD under the provisions of Disaster Management Act 2005 will be	Onsite emergency plan document and Disaster Management Plan document of PWD	Contractor	PWD	Mock Drill every quarter	Contractor

Sl. No.	Environmental Issues	Mitigation Measures	Parameter (Indicators for Compliance)	Responsible Implementation	Responsible Supervision	Frequency for Monitoring	Sources of Fund for Implementing Mitigation Measure
		followed.					
20	Safety Measures During Construction	Adequate safety measures for workers during handling of materials at the proposed RLC site will be taken up. The contractor has to comply with all regulations for the safety of workers. Precaution will be taken to prevent danger of the workers from accidental injuries, fire, etc. First aid treatment will be made available for all injuries likely to be sustained during the course of work. The contractor will conform to all anti-malaria instructions given to him by the Engineer.	Records of availability of personal protective equipment, availability of first aid kits	Contractor	PIU and PWD	Regularly during construction phase	Contractor
21	Clearing of Construction of	Contractor to prepare site	Restoration plan, and	Contractor	PIU and PWD	End of construction	Contractor

Sl. No.	Environmental Issues	Mitigation Measures	Parameter (Indicators for Compliance)	Responsible Implementation	Responsible Supervision	Frequency for Monitoring	Sources of Fund for Implementing Mitigation Measure
	Camp and Restoration	restoration plans for approval by the Engineer (PWD). The plan is to be implemented by the contractor prior to demobilization. On completion of the works, all temporary structures will be cleared away, all rubbish burnt, excreta or other disposal pits or trenches filled in and effectively sealed off and the site left clean and tidy, at the Contractor's expense, to the entire satisfaction of the PWD	records of pre-construction of temporary sites			phase	

**Table-3: Environmental Monitoring Plan for RLC Seraj for Preconstruction, Construction and Defect Liability Period**

Sl. No.	Field (Environmental Attribute)	Phase	Parameters to be Monitored	Locations	Frequency	Responsibility
1	Air Quality	During pre-construction phase	CO, NOx, PM <sub>10</sub> , PM <sub>2.5</sub> , and SO <sub>2</sub>	RLC Construction site	Once in the pre-construction phase to establish baseline	Contractor through approved



Sl. No.	Field (Environmental Attribute)	Phase	Parameters to be Monitored	Locations	Frequency	Responsibility
		During Construction Phase			Once in a season (except monsoon season) during construction phase (24 months construction phase)	Monitoring Agency
		Defect Liability Period			Once in a season except monsoon season during defect liability period	
2	Water quality (Ground and Surface water sources)	During pre-construction phase	TDS, TSS, pH, Hardness, BOD, Faecal Coli form	Ground water close to RLC construction site and surface water from local stream flowing near RLC site	Once in pre-construction phase to establish baseline	Contractor through approved Monitoring Agency
		During Construction Phase			Once in a season (except monsoon season) during construction phase	
		Defect Liability Period			Once in a season except monsoon season during defect liability period	
3	Noise Levels	During pre-construction phase	Noise quality as per National Ambient Noise Standards on dB(A) scale	Noise levels at RLC Site	Once in pre-Construction phase to establish baseline	Contractor through approved Monitoring Agency
		During Construction Phase			Once in a season (except monsoon season) during construction phase	
		Defect Liability Period			Once in a season except monsoon season during defect liability period	