

Government of Nepal
 Ministry of Commerce and Supplies
 NEPAL-INDIA REGIONAL TRADE AND TRANSPORT PROJECT
 IDA Credit No: 5273-NP, Grant No.: H863-NP

ENVIRONMENTAL MANAGEMENT PLAN

**Pavement restoration works inside the Bhairahawa ICD Complex; NIRTTP/PCO/NITDB/W/NCB-3
 and
 Extension of storage shed at Birgunj ICD; NIRTTP/PCO/NITDB/W/ICB-1**

Environmental Management Plan matrix

The following Environmental Management Plan presented below identifies potential environmental impacts, corresponding mitigation measures for all activities under the improvement of Bairaahawa ICD and Birgunj ICD as well as the responsibilities of Ministry of Science Technology and Environment (MOSTE), Ministry of Commerce and Supplies (MOCS), Project Coordination Office (PCO), Nepal Intermodal Transport Development Board (NITDB) and the Contractor.

Project Activity	Potential Environmental Impacts	Proposed Environmental Safeguards Measures	Verification Method	Institutional Responsibilities
Dismantling and site clearance	Generation of construction waste materials, safety hazard, damage in existing infrastructures	<ul style="list-style-type: none"> ▪ Dismantling activities will only be done after informing the ICD stakeholders (Customs office, bank, clearing agents, transport companies, labors, etc.). ▪ Unnecessary movement will not be allowed during dismantling period. ▪ Safety measures like mask, helmet, gloves, etc will be provided to workers during dismantling. ▪ Damage to other structures, if any will be repaired and rehabilitated. ▪ Construction waste materials, not used, will be collected in certain place and then transported to place designated by the municipality for safe disposal. 	Observation, discussion with workers, record	PCO/ NITDB/ Contractor
Construction activities (concreting, laying of bitumen and maintenance of water drainage)	Occupational safety and health hazard, dust emission, risk of accident during works. The lack of proper sanitary measures and increase in waste and water pollution.	<ul style="list-style-type: none"> ▪ Entry of unnecessary persons will not be allowed. ▪ Safety measures like helmet, mask and boots will be provided to required workers. ▪ Accidental insurance will be done for workers. ▪ Basic facilities like drinking water, toilet and first aid facilities will be provided to workers. ▪ Dust emission will be minimized with fencing net, if required. ▪ Singes will be erected to inform on ongoing construction activities. ▪ Emergency responses system will be kept intact for any possible accidents. ▪ Construction workers will be orientated prior to start of work. ▪ Restoration of disturbed infrastructures to the condition i.e. repair and maintenance of drainages system. ▪ The site will be made clear after completion of construction activities. 	Observation, discussion with workers, record	PCO/ NITDB/ Contractor

Earthwork excavation and disposal	Disruption of drainage system and degradation of water quality	<ul style="list-style-type: none"> Reuse the spoil for leveling of the undulated ground. Proper selection of disposal sites and safe disposal of spoils without affecting the natural drainage pattern or other infrastructures. 	Observation	PCO/ NITDB/ Contractor
Collection, supply and storage of construction materials	Water and noise pollution, littering of construction materials, traffic disturbance	<ul style="list-style-type: none"> Construction materials will be transported in low traffic hours. Construction materials will be covered during transportation. Construction materials will be stored at designated place within project site area taking necessary precautionary methods. 	Observation, records	PCO/ NITDB/ Contractor
Construction activities	Air, noise and water pollution (dust emission, water quality deterioration due to disposal of excavated materials and waste by workers)	<ul style="list-style-type: none"> Masks shall be provided to construction workers. Avoid disposal of excavated materials in the water bodies. Construction materials will be kept in designated place with necessary precautionary measures. 	Observation, records, discussion	PCO/ NITDB/ Contractor

Institutional Arrangement

An Environmental Monitoring Expert shall be assigned during the sub-project implementation for close monitoring and reporting of EMP compliance activities. Institutional roles and responsibilities will be as follows:

Stage	Institution	Role	Responsibility in the Project	Remark
PRE-CONSTRUCTION	MOSTE	Mandated by the government to formulate and implement environmental policies, plans and programs at national level	<ul style="list-style-type: none"> Facilitate on environmental safeguards, when required 	No direct responsibility in the project
	MOCS	It is concerned line ministry, executive agency and concerned agency as per EPA/EPR. It is responsible to look into safeguard matters.	<ul style="list-style-type: none"> To review IEE/EIA reports along with TOR/SD and approve in case of IEE and forward EIA documents to MOSTE for approval. Coordinate with project on safeguard issues. 	Executing Agency
	PCO	Project specific unit	<ul style="list-style-type: none"> Support and coordinate all activities for implementation of NIRTTP activities. Review and comment on IEE/EIA report along with TOR/SD 	Government staff seconded in key positions from MOCS.
	NITDB	Executing agency for operation of CFS and ICDs	<ul style="list-style-type: none"> Oversee the economical and efficient management of ICD for facilitation of Nepal's foreign trade 	Regulatory body for all dry ports. Board chaired by the Secretary of MOCS
CONSTRUCTION	MOCS	Responsible to look into safeguard matters	<ul style="list-style-type: none"> Coordinate with project on safeguard issues Conduct environmental monitoring from central level. 	At least 4 times a year during construction and twice in a year during operation phase

	PCO	Responsible to execute the projects under MOCS. Provides back-up support to the project.	<ul style="list-style-type: none"> Conduct environmental monitoring from central level. 	Assist the Ministry on monitoring activities. Provide technical assistance.
	NITDB	Executing agency for operation of CFS and ICDs	<ul style="list-style-type: none"> Support PCO in conducting environmental monitoring. 	Assist the PCO on monitoring activities. Provide technical assistance, if required.
POST-CONSTRUCTION	NITDB	Management of CFS and ICDs	Conduct environmental monitoring from central level.	Provide technical assistance

Implementation Arrangement

The PCO will be responsible for overall management and monitoring of the EMP implementation and communication with MOCS and the World Bank for project implementation supervision and reporting. The PCO will be supported by consultants for environmental and social safeguards management.

