

Environmental Checklist: 19. Ports and Harbors (1)

Category	Environmental Item	Main Check Items	Confirmation of Environmental and Social Considerations
1. Permits and Approvals, Explanations	(1) ESIA and Environmental Permits	① Have ESIA reports been officially completed? Have ESIA reports been written in the official language or a language widely used in the country of the host country? ② Have ESIA reports been approved by the government of the host country? ③ Have ESIA reports been unconditionally approved? If conditions are imposed on the approval of ESIA reports, are the conditions satisfied? ④ In addition to the above approvals, have other required environmental permits been obtained from the appropriate regulatory authorities of the host country's government?	
	(2) Explanations to the Public	① Is the project accepted in a manner that is socially appropriate to the country and locality throughout the preparation and implementation stages of the project based on sufficient consultations with stakeholders, such as local residents, conducted via disclosure of project information and potential impacts? ② Are the records of such consultations with the stakeholders, such as local residents, prepared? ③ Are the written materials for the disclosure prepared in a language and form understandable to the local residents? ④ Are ESIA reports available at all times for perusal by stakeholder such as local residents, and copying of the reports permitted? ⑤ Are proper responses made to comments from the public and regulatory authorities?	
2. Anti-pollution Measures	(1) Air Quality	① Do air pollutants, such as sulfur oxides (SO _x), nitrogen oxides (NO _x), and soot and dust emitted from various sources, such as ships, vehicles, and the ancillary facilities comply with the host country's emission standards? ② Is there a possibility that air pollutants emitted from the project will cause areas that do not comply with the host country's ambient air quality standards? ③ Are adequate measures taken to reduce GHG emissions from the project?	

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Category	Environmental Item	Main Check Items	Confirmation of Environmental and Social Considerations
2. Anti-pollution Measures	(2) Water Quality	① Do general effluents from the related facilities comply with the host country's effluent standards and ambient water quality standards? ② Do effluents from ships and ancillary facilities (e.g. dock) comply with the host country's effluent standards and ambient water quality standards? ③ Are adequate measures taken to prevent spills and discharges of materials, such as oils and hazardous materials to the surrounding water areas? ④ Is there a possibility that oceanographic changes, such as alteration of ocean currents, and reduction in seawater exchange rates (deterioration of seawater circulation) due to modification of water areas, such as shoreline modifications, reduction in water areas, and creation of new water areas will cause changes in water temperature and water quality? ⑤ In the case of the projects including land reclamation, are adequate measures taken to prevent contamination of surface water, seawater, and groundwater by leachates from the reclamation areas? ⑥ Are adequate measures taken to prevent contamination of surface water and groundwater by these effluents? Is there a possibility that the effluents from the project will cause areas that do not comply with the host country's ambient water quality standards?	
	(3) Waste	① Are wastes from ships and the related facilities properly treated and disposed of in accordance with the laws and regulations for the host country? ② Is offshore dumping of dredged materials and soils properly treated and disposed of in accordance with the laws and regulations of the host country to prevent impacts on the surrounding waters? ③ Are adequate measures taken to prevent discharge or dumping of hazardous materials to the surrounding water areas?	
	(4) Soil Contamination	① Has the soil at the project site been contaminated in the past, and are adequate measures taken to prevent soil contamination?	
	(5) Noise and Vibration	① Do noise and vibrations from the operation comply with the host country's standards?	
	(6) Odor	① Are there any odor sources? Are adequate odor control measures taken?	
	(7) Sediment	① Are adequate measures taken to prevent contamination of sediments by discharges or dumping of materials, such as hazardous materials from ships and the related facilities?	

Environmental Checklist: 19. Ports and Harbors (3)

Category	Environmental Item	Main Check Items	Confirmation of Environmental and Social Considerations
3. Natural Environment	(1) Protected Areas	① Is the project site located in protected areas designated by the host country's laws or international treaties etc.? Is there a possibility that the project will significantly affect the protected areas?	
	(2) Ecosystem and Biota	① Does the project cause significant conversion or significant degradation of forests with important ecological value (including primary forests and natural forests in tropical areas) and habitats with important ecological value (including coral reefs, mangrove wetlands and tidal flats)? ② In case the projects involve the significant conversion or degradation of natural habitats including natural forests, is the avoidance of impacted considered preferentially? If the impacts are unavoidable, will the appropriate mitigation measures be taken? ③ Will the evaluation of the impacts on natural habitats by the project and consideration for the offset measures be carried out based on expert opinion? ④ Is the illegal logging of the forest avoided? ⑤ Does the project site encompass the protected habitats of endangered species designated by the host country's laws or international treaties etc.? ⑥ Is there a possibility that the project will adversely affect aquatic organisms? If impacts are anticipated, are adequate measures taken to reduce the impacts on aquatic organisms? ⑦ Is there a possibility that the project will adversely affect vegetation and wildlife of coastal zones? If significant impacts are anticipated, are adequate measures taken to reduce the impacts on vegetation and wildlife? ⑧ If any adverse impacts on ecosystem are predicted, are adequate measures taken to reduce the impacts on ecosystem?	
	(3) Hydrology	① Is there a possibility that the installation of port and harbor facilities will cause oceanographic changes? Is there a possibility that the installation of the facilities will adversely affect oceanographic conditions, such as waves, and tidal currents?	
	(4) Topography and Geology	① Is there a possibility that installation of port and harbor facilities will cause a large-scale alteration of topographic features and geological structures in the surrounding areas or elimination of natural beaches?	

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Category	Environmental Item	Main Check Items	Confirmation of Environmental and Social Considerations
4. Social Environment	(1) Resettlement	<p>① Are involuntary resettlement and loss of means of livelihoods avoidable by project implementation? If unavoidable, are efforts made to minimize the impacts caused by the resettlement and loss of means of livelihoods?</p> <p>② Are the people affected by the project provided with adequate compensation and supports to improve their standard of living, income opportunities, and production levels or at least to restore them to pre-project levels? Also, is prior compensation at full replacement cost provided as much as possible?</p> <p>③ Is the participation of the people affected and their communities promoted in planning, implementation, and monitoring of involuntary resettlement action plans and measures against the loss of their means of livelihood? In addition, will appropriate and accessible grievance mechanisms be established for the people affected and their communities?</p> <p>④ Is the resettlement action plan (including livelihood restoration plan as needed) prepared and disclosed to the public for the project which will results in a large-scale resettlement or large-scale loss of means of livelihood? Does the resettlement action plan include elements required in the standard of the international financial institution benchmarked in its environmental reviews?</p> <p>⑤ In preparing a resettlement action plan, is consultation made with the affected people and their communities based on sufficient information made available to them in advance and is explanations given in a form, manner, and language that are understandable to the affected people?</p> <p>⑥ Has appropriate consideration been given to vulnerable social groups, such as women, children, the elderly, the poor, and ethnic minorities in the resettlement action plan?</p> <p>⑦ Are agreements with the affected people obtained prior to the resettlement?</p> <p>⑧ Is the organizational framework established to properly implement resettlement? Are the capacity and budget secured to implement the resettlement action plan?</p> <p>⑨ Is a plan developed to monitor the impacts of resettlement?</p>	
	(2) Living and Livelihood	<p>① Is there a possibility that the project will adversely affect the living conditions of inhabitants? Are adequate measures considered to reduce the impacts, if necessary?</p> <p>② Is there a possibility that changes in water uses (including fisheries and recreational uses) in the surrounding areas due to project will adversely affect the livelihoods of inhabitants?</p> <p>③ Is there a possibility that port and harbor facilities will adversely affect the existing water traffic and road traffic in the surrounding areas?</p> <p>④ Has appropriate consideration been given to vulnerable social groups, such as women, children, the elderly, the poor, ethnic minorities and indigenous peoples?</p>	
	(3) Heritage	<p>① Is there a possibility that the project will damage the local archeological, historical, cultural, and religious heritage sites? Are adequate measures considered to protect these sites in accordance with the host country's laws?</p>	
	(4) Landscape	<p>① Is there a possibility that the project will adversely affect the local landscape? Are necessary measures taken?</p>	

Environmental Checklist: 19. Ports and Harbors (5)

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4. Social Environment	(5) Ethnic Minorities and Indigenous Peoples	<p>① Are the impacts to ethnic minorities and indigenous peoples avoidable by project implementation? If unavoidable, are efforts made to minimize the impacts and to compensate for their losses?</p> <p>② If the project has adverse impacts on indigenous peoples' various rights in relation to land and resources, is such rights respected?</p> <p>③ Is the indigenous peoples plan prepared and made public? Does the indigenous peoples plan include elements required in the standard of the international financial institution benchmarked in its environmental reviews?</p> <p>④ In preparing the indigenous peoples plan, is consultation made with the affected ethnic minorities and indigenous peoples based on sufficient information made available to them in advance and are explanations given in a form, manner, and language that are understandable to them?</p> <p>⑤ Are the free, prior, and informed consents of the indigenous peoples obtained?</p>	
	(6) Working Conditions (including occupational safety)	<p>① Is the project proponent not violating any laws and regulations associated with the working conditions of the host country which the project proponent should observe in the project?</p> <p>② Are tangible safety considerations in place for individuals involved in the project, such as the installation of safety equipment which prevents industrial accidents, and management of hazardous materials?</p> <p>③ Are intangible measures being planned and implemented for individuals involved in the project, such as the establishment of a safety and health program, and safety training (including traffic safety and public sanitation) for workers etc.?</p>	
	(7) Community Health, Safety and Security	<p>① Is there a possibility that diseases, including communicable diseases, such as HIV will be introduced due to immigration of workers associated with the project? Are adequate considerations given to public health, if necessary?</p> <p>② Are appropriate measures being taken to ensure that security guards involved in the project do not violate safety of other individuals involved, or local residents?</p>	
5. Other	(1) Impacts during Construction	<p>① Are adequate measures considered to reduce impacts during construction (e.g. noise, vibrations, turbid water, dust, exhaust gases, and wastes)?</p> <p>② If construction activities adversely affect the natural environment (ecosystem), are adequate measures considered to reduce impacts?</p> <p>③ If construction activities adversely affect the social environment, are adequate measures considered to reduce impacts?</p>	
	(2) Accident Prevention Measures	<p>① Are adequate contingency plans and mitigation measures developed to cover both the soft and hard aspects of the project, such as accident prevention programs, installation of prevention facilities and equipment, and safety education for workers? Are adequate measures for emergency response to accidental events considered?</p>	

Environmental Checklist: 19. Ports and Harbors (6)

Category	Environmental Item	Main Check Items	Confirmation of Environmental and Social Considerations
5. Other	(3) Monitoring	① Are the monitoring programs and environmental management plans of the project prepared? ② Are the items, methods and frequencies included in the monitoring program judged to be appropriate? ③ Does the proponent establish an adequate monitoring framework (organization, personnel, equipment, and adequate budget to sustain the monitoring framework)? ④ Are any regulatory requirements pertaining to the monitoring report system identified, such as the format and frequency of reports from the proponent to the regulatory authorities? ⑤ Are the results of monitoring planned to be disclosed to the stakeholders of the project? ⑥ Is there a processing mechanism in place, for solving problems related to environmental and social considerations pointed out by third parties?	
6. Notes	(1) Reference to Checklists of Other Sectors	① Where necessary, pertinent items described in the Roads, Railways and bridges checklist should also be checked (e.g. projects including access roads to the ports).	
	(2) Notes on Using Environmental Checklists	① Where necessary, impacts on groundwater hydrology (groundwater level drawdown and salinization) that may be caused by alteration of topography, such as land reclamation and canal excavation should be considered, and impacts, such as land subsidence that may be caused by groundwater uses should be considered. Adequate mitigation measures should be taken. ② If necessary, the impacts to transboundary or global issues should be confirmed (e.g. the project includes factors that may cause problems, such as transboundary waste treatment, acid rain, destruction of the ozone layer, and global warming).	

- 1) Regarding the Standards for Confirmation of Appropriateness of Environmental and Social Considerations, confirm the background and rationale for deviation and the measures to rectify it if necessary, when the environmental and social considerations of the project substantially deviate from the World Bank Safeguard Policies or IFC Performance Standards and a relevant section of EHS Guidelines, and also where appropriate compare with the standards established by other international financial institutions, other internationally recognized standards, and/or standards or good practices established by developed countries such as Japan, in addition to environmental laws and standards of the host nation and local governments concerned. For standards that current regulations in the host country has not been established, examine by comparison with the international standards such as the World Bank Safeguard Policies and the standards of developed countries such as Japan.
- 2) Environmental checklist provides general environmental items to be checked. It may be necessary to add or delete items taking into account the characteristics of the project and the particular circumstances of the country and locality, including the direct and immediate impact of projects, derivative, secondary, cumulative impact and impact of associated facilities, and the impact throughout the life cycle of the project.