

**INTEGRATED SAFEGUARDS DATA SHEET
APPRAISAL STAGE**

Report No.: ISDSA15838

Date ISDS Prepared/Updated: 29-Feb-2016

Date ISDS Approved/Disclosed: 02-Mar-2016

I. BASIC INFORMATION

1. Basic Project Data

Country:	China	Project ID:	P149485
Project Name:	Ningbo Sustainable Urbanization Project (P149485)		
Task Team Leader(s):	Alessandra Campanaro		
Estimated Appraisal Date:	07-Mar-2016	Estimated Board Date:	15-Jul-2016
Managing Unit:	GSU08	Lending Instrument:	Investment Project Financing
Sector(s):	Public administration- Financial Sector (15%), Urban Transport (45%), General water, sanitation and flood protection sector (40%)		
Theme(s):	Pollution management and environmental health (10%), Urban planning and housing policy (25%), Municipal finance (15%), City-wide Infrastructure and Service Delivery (50%)		
Is this project processed under OP 8.50 (Emergency Recovery) or OP 8.00 (Rapid Response to Crises and Emergencies)?			No
Financing (In USD Million)			
Total Project Cost:	343.00	Total Bank Financing:	150.00
Financing Gap:	0.00		
Financing Source			Amount
Borrower			193.00
International Bank for Reconstruction and Development			150.00
Total			343.00
Environmental Category:	B - Partial Assessment		
Is this a Repeater project?	No		

2. Project Development Objective(s)

The objective of the project is to improve the use of urban public space, improve urban mobility and reduce flood risk in selected counties in Ningbo municipality.

3. Project Description

The project will finance investments in selected counties of the Ningbo project, as defined in the Project Implementation Plan (PIP). The investments will span the following sectors and activities.

Component 1. Urban regeneration. The objective of this component to create a vibrant and safe urban environment by adopting people-centered design strategies and improving the quality of open space and public services. Urban regeneration refers to a comprehensive package of investments in public infrastructure and service delivery in existing urban areas. Priority will be given to activities that provide lower income households and migrant workers affordable transport options to job centers, offer the elder and the youth safe access to medical and educational institutions, and/or contribute to the preservation of cultural identity and improvements of social inclusion in local communities. This component will fund activities, inter alia, in the following typologies: upgrade public space along main transport corridors and commercial streets; comprehensive regeneration of lagging behind communities; Improvements to road safety and traffic management efficiency.

Component 2. Urban transport. The objective of this component is to strengthen connectivity by expanding urban road network to disconnected areas and improving the capacity, reliability, coverage and accessibility of the bus system. Typically, the public transport network has very low ridership and the connectivity between local and regional transport is unsatisfactory. These investments are closely linked to Component 1 and ensure a stronger urban transport system is created to improve the overall network efficiency within the city by better integrating non-motorized systems at the neighborhood level with public bus systems for longer-distance trips within the county. This component will fund activities, inter alia, in the following typologies: completion of city road network; bus terminal/depot; bus stops and facilities; upgrade and expansion of the bus fleet.

Component 3. Flood Risk Management. The objective of this component is to reduce the vulnerability of the counties to the risks of floods. The selected measures will help the cities to better prepare and protect critical assets and vulnerable people to potential floods in the future. Investments will be designed with the following principles and features: protection of natural water systems, reduction of storm water runoff and peak flows, protection of water quality and ecosystem by increasing filtration and retention, and upgrade of flood protection and drainage infrastructure. An important aspect will be to increase opportunities for the water to infiltrate into the ground rather than (or before) channeling it to the fixed capacity drains and pipes. Infiltration trenches, filter strips, vegetated swales and planter beds all work by retaining water. This component will fund activities, inter alia, in the following typologies: structural investments and non-structural investments.

Component 4. Technical Assistance and Capacity Building. This objective of this component is to create more livable local communities by supporting local governments in finding cost-effective solutions based on sound financing plans. This component will fund activities, inter alia, in the following typologies: Sustainable local development and planning. Capital Investment and Asset Management; Innovative financial mechanisms for public service delivery; Project Management and Supervision.

4. Project location and salient physical characteristics relevant to the safeguard analysis (if known)

Ningbo Municipality is located in the Northeast part of Zhejiang Province, just 2 hours south of Shanghai. It is bounded on the east by the East China Sea and on the north by Hangzhou Bay. Its land area is 9,816 square kilometers, with 1,562 km of coastline. The city proper of Ningbo is

sandwiched between the ocean and low-lying mountains to the southwest, with coastal plain and valleys in between. There are 531 islands in the municipality and important peninsulas include the Chuanshan Peninsula and the Xiangshan Peninsula.

Ningbo has a humid subtropical climate with four distinctive seasons, characterized by hot, humid summers and chilly, cloudy and drier winters (with occasional snow). The city receives an average annual rainfall of 1,440mm and is affected by the plum rains of the Asian monsoon in June, when average relative humidity also peaks. From August to October, Ningbo experiences the effects of typhoons, and is affected by an average of 1.8 storms annually, though the city is not very often struck directly by these systems. Counties under its jurisdiction have similar climatic and geographic conditions, due to the small size of Ningbo Municipality.

Xiangshan County is the first subproject that was assessed by appraisal. The segments of 15 streams in Xiangshan to be dredged under the project are all in urban area or downstream. They have long become de-facto drainage channel for sewage and rainwater (thus poor water quality). Moreover most of them have been dredged or rehabilitated before, thus rather artificial by now.

Project counties are on the way to rapid urbanization. Most project activities will take place near or right at the center of county towns, where there are concentration of residents housing. Activities planned at the suburban areas will involve collective land.

5. Environmental and Social Safeguards Specialists

Aimin Hao (GSU02)

Xin Ren (GEN02)

6. Safeguard Policies	Triggered?	Explanation (Optional)
Environmental Assessment OP/BP 4.01	Yes	<p>The project aims at improving urban livability and flood resilience. The component on transport involves building of new road and bus facility as well as upgrading existing streets. The component on flood management will mainly fix problems identified in the existing drainage network through upgrading and cleaning some pipelines, creating or improving flood retention facilities or dredging part of drainage channels. Major environmental impacts are construction related, such as noise, dust, spoil disposal and temporary storage on-site, soil erosion at borrow pit, wastewater discharge, vegetation loss, traffic impact, social disturbance and safety. These impacts are of temporary nature, mostly site-specific, few if any of them are irreversible and in most cases mitigation measures can be designed more readily than for Category A projects. Therefore, a category B is assigned. Environmental Assessment (EA) was conducted for project activities in Xiangshan, identified and assessed by appraisal, as per domestic and the Bank's requirements.</p> <p>For those sub-projects to be prepared during implementation (e.g. in Ninghai and Fenghua County), an</p>

		Environment and Social Management Framework (ESMF) has been prepared that describes the environmental and social screening, preparation, implementation, and monitoring process of sub-projects according to the relevant World Bank safeguard policies. An Environmental and Social Impact Assessment (ESIA) report which includes a chapter for Environment Management Plan (EMP) and a chapter from the Social Assessment Report which has been prepared separately by the social team. A Resettlement Policy Framework (RPF) has been prepared to guide future resettlement work if land acquisition and/or resettlement is unavoidable in subprojects. The ESIA and ESMF have been disclosed locally in November 2015 and February 2016 respectively and through World Bank's Infoshop in December 2015 and February 2016.
Natural Habitats OP/BP 4.04	No	The project will bring positive impacts on streams and rivers running through urban area by dredging and cleaning up. Systematic survey during the EA preparation confirms that the Xiangshan project does not affect any sensitive areas such as nature reserves or important habitats as defined by this policy. Segments of 15 streams in Xiangshan under the project are all in urban area or downstream. They have long become drainage channel for sewage and rainwater (thus poor water quality). Moreover, most of them have been dredged or rehabilitated before, thus are hardly any natural habitat as defined by this OP. However for future subprojects, there might be affected area that amount to natural habitat. The Environmental and Social Management Framework (ESMF) has included provisions to identify and avoid impacts on important habitats and ecosystems through proper subproject and site selection.
Forests OP/BP 4.36	No	The project will not involve any forestry related activities.
Pest Management OP 4.09	No	The project will not result in the use or procurement of pesticides. The policy OP 4.09 is not triggered.
Physical Cultural Resources OP/BP 4.11	Yes	A survey of physical cultural resources has been conducted during the EA preparation which discovered several local temples beside the new alignment of road in Xiangshan County. Relevant measures and Chance-find procedures have been included in the EMP section of the ESIA.
Indigenous Peoples OP/BP 4.10	No	Based on social assessment findings, ethnic minority people accounts for 0.09% of total population in Xiangshan county, and the two districts with selected

		project investments have ethnic minority accounting for 0.12% and 0.02% respectively. These people live scattered in project area by natural mobility through marriage and work. No ethnic minority people as described by the criteria in OP/BP4.10 identified. No evidence found that there are ethnic minority concentrated areas in Xiangshan, Ninghai and Fenghua County and planned project investments will not adversely impact ethnic minorities. Therefore OP/BP4.10 is not triggered for identified sub-projects. However, the ESMF will include screening procedures to assess and manage ethnic minority, resettlement, gender and vulnerable groups to guide management of OP/BP4.10 policy for sub-projects that will have detailed design information at a later stage.
Involuntary Resettlement OP/BP 4.12	Yes	The project will finance the construction of roads, transport and water related infrastructure and facilities all of which might require land acquisition and resettlement. OP/BP 4.12 is triggered and a Resettlement Action Plan (RAP) has been prepared. Since not all sub-projects will have detailed design to inform the level of resettlement impact by appraisal, a Resettlement Policy Framework as part of the ESMF has been prepared to guide future management of OP/BP4.12. The RAP and RPF, and Social Assessment Report have been disclosed locally in November 2015. The InfoShop disclosure was done in December 2015.
Safety of Dams OP/BP 4.37	No	The project will not involve any dams. The policy is not triggered.
Projects on International Waterways OP/BP 7.50	No	This policy is not applicable and triggered.
Projects in Disputed Areas OP/BP 7.60	No	This policy is not applicable and triggered.

II. Key Safeguard Policy Issues and Their Management

A. Summary of Key Safeguard Issues

<p>1. Describe any safeguard issues and impacts associated with the proposed project. Identify and describe any potential large scale, significant and/or irreversible impacts:</p>
<p>Environment</p> <p>The project is expected to bring positive impacts on the environment mainly by rehabilitating rivers and improving local public transport. The potential impacts come mainly from construction phase, such as dust, noise, waste disposal, vegetation loss, sewage discharge, traffic impact, workers' health and safety, social and traffic disturbance. Off-site impacts caused by disposal of spoil from new road building and dredged material for flood control in Xiangshan demand more attention, given the rising amount anticipated from the alternative alignment which aims at reducing resettlement. During operation, main impacts include noise and air emission from road</p>

traffic, and sewage and garbage generated from the bus terminals

Social

Since identified project interventions will mostly take place near and in the center of Xiangshan county town, land acquisition and resettlement is unavoidable. However, no large scale resettlement is expected, and the project owner has been advised to consider alternatives when designing project activities to minimize negative impacts to livelihoods of local communities. A total number of 203 households with 798 people will be affected by land acquisition both by the project and linked project. A total 347.03mu collective land will be acquired, with 65.6mu from linked project. Residential housing demolition will impact 63 households with 222 people from both linked project and project activities.

With improved public transportation, public spaces, and better flood control mechanism, the project will contribute to a better livable city. Through wide public participation in project design, implementation and management, monitoring and evaluation introduced by citizen engagement efforts, project outcomes will be more sustainable.

An Environmental and Social Management Framework (ESMF) has been prepared to guide design and implementation of project activities in Ninghai and Fenghua counties in a later stage.

2. Describe any potential indirect and/or long term impacts due to anticipated future activities in the project area:

More long term impacts occur during operation, such as air pollution and noise from traffic and operation of bus terminals, as well as road safety. Potential impacts from future subprojects need to be controlled within the current category assigned to the overall project.

Induced impacts by project's activities on improving urban planning, urban public space and public transport management include a better livability and connectivity of old urban centers which benefit greatly local people and the environment.

3. Describe any project alternatives (if relevant) considered to help avoid or minimize adverse impacts.

During EA preparation, alternative analysis of different design options was undertaken, including a without project scenario, to avoid or minimize negative impacts from the outset. Different alignments of new road especially the west ring road were analyzed on their impacts on the environment versus resettlement and other social impacts. Different configuration and ancillary facility design for the bus terminal were compared. Alternatives with less social and environmental impacts and more user friendly were recommended. These recommendations from the EA have been incorporated in the feasibility studies and will feed into the design.

The project owner has been encouraged to consider alternatives wherever possible to reduce adverse impacts. During the design of road improvements at West Ring Road, the design team was requested to make three proposals to minimize resettlement impact. At the project site where flood control channel will be constructed, an alternative route was adopted to avoid the originally proposed route which will run through an entire village.

4. Describe measures taken by the borrower to address safeguard policy issues. Provide an assessment of borrower capacity to plan and implement the measures described.

Ningbo Environmental Institute, a certified EA institute with substantial experience in preparing EA for the WB projects in the region, was engaged to prepare EA for subprojects in Xiangshan County. Based on the EA, an Environmental Management Plan (EMP) was prepared which specifies mitigation measures based on experience from similar projects, the WB/IFC's General

Guidelines on Environmental, Health and Safety, Chinese construction code of conduct and recommendations from the public consultation. The EMP will be referred in bidding documents and contracts with contractors and supervisors to ensure its implementation.

The Ningbo PMO has extensive and recent experience preparing and implementing the WB projects for years. It has been working closely with County project implementation unit (PIUs) on the preparation of this project and ensuring the project complies with the Bank's Safeguards policies and procedures. Capacity building of the clients has focused on PIUs at county level throughout the preparation process. To ensure EMP implementation, a budgeted training plan is also included in the EMP which forms part of the overall training plan of the project. The EMP is the result of close collaboration between the PMOs and the EA consultants. This ensures the EMP's ownership by the project entities which in turn helps guarantee its effective implementation.

For those sub-projects to be prepared during implementation, an ESMF has been prepared under which the Bank team and the Ningbo PMO will select subprojects according to a set of environmental and social selection criteria, advise and review the impact assessment, and supervise their implementation to manage the impacts and risks according to the relevant World Bank safeguard policies. The ESMF included guidance in the areas of safeguards compliance, gender equality, equal share of project benefits by vulnerable groups, and wide public consultation and engagement.

The project owner commissioned an experienced team to assess resettlement impacts and prepare necessary safeguards documents required by bank policy. Although for Xiangshan county this is the first bank funded project, but since project preparation is largely guided by Ningbo project management office, who is among the most experienced PMOs managing bank funded investments in China, the risk of not meeting bank's safeguards policies is low. Future guidance from Ningbo PMO to other counties selected to carry out project activities has been secured.

5. Identify the key stakeholders and describe the mechanisms for consultation and disclosure on safeguard policies, with an emphasis on potentially affected people.

There were two rounds of public consultation undertaken following public disclosure. The first round was in Sep 2015 after notification about the project and the ToR for ESIA was disclosed in local newspaper, official website of PMO of both Ningbo and Xiangshan. For the second round, the draft ESIA/EMP and ESMF were disclosed in November at local newspaper and official website of PMO of both Ningbo and Xiangshan with information about access to the ESIA hardcopy. The primary objective was to collect the public opinion about the project, the EA findings and the sufficiency of mitigation measures. Altogether nearly 120 people directly affected by the project with a wide range of background were surveyed. In addition, about 29 entities were consulted in other county towns selected for the project (Ninghai and Fenghua) for the ESMF for future subprojects. Measures to address these concerns are incorporated in the ESIA/EMP and ESMF, and conveyed to the PMOs.

Public consultations were carried out during the social assessment process, and also during land acquisition and resettlement impact assessment between October 2014 and June 2015. Activities included stakeholder workshops, key informant interviews, focus-group discussions, and questionnaires. These consultations investigated affected people's awareness of the project, their willingness to resettle, and their preferences on compensation and mitigation measures. Project information has been publically announced by Xiangshan Development and Reform Bureau at

government website, broadcasting, and local newspapers. Detailed information of public consultation and information disclosure has been included in the Social Assessment Report, which itself has been disclosed both locally and through World Bank's infoshop in December, 2015.

B. Disclosure Requirements

Environmental Assessment/Audit/Management Plan/Other	
Date of receipt by the Bank	01-Dec-2015
Date of submission to InfoShop	10-Dec-2015
For category A projects, date of distributing the Executive Summary of the EA to the Executive Directors	
"In country" Disclosure	
China	06-Nov-2015
<i>Comments:</i>	
Resettlement Action Plan/Framework/Policy Process	
Date of receipt by the Bank	26-Oct-2015
Date of submission to InfoShop	20-Nov-2015
"In country" Disclosure	
China	06-Nov-2015
<i>Comments:</i>	
If the project triggers the Pest Management and/or Physical Cultural Resources policies, the respective issues are to be addressed and disclosed as part of the Environmental Assessment/Audit/or EMP.	
If in-country disclosure of any of the above documents is not expected, please explain why:	

C. Compliance Monitoring Indicators at the Corporate Level

OP/BP/GP 4.01 - Environment Assessment	
Does the project require a stand-alone EA (including EMP) report?	Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>] NA [<input type="checkbox"/>]
If yes, then did the Regional Environment Unit or Practice Manager (PM) review and approve the EA report?	Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>] NA [<input type="checkbox"/>]
Are the cost and the accountabilities for the EMP incorporated in the credit/loan?	Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>] NA [<input type="checkbox"/>]
OP/BP 4.11 - Physical Cultural Resources	
Does the EA include adequate measures related to cultural property?	Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>] NA [<input type="checkbox"/>]
Does the credit/loan incorporate mechanisms to mitigate the potential adverse impacts on cultural property?	Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>] NA [<input type="checkbox"/>]
OP/BP 4.12 - Involuntary Resettlement	
Has a resettlement plan/abbreviated plan/policy framework/process framework (as appropriate) been prepared?	Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>] NA [<input type="checkbox"/>]
If yes, then did the Regional unit responsible for safeguards or Practice Manager review the plan?	Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>] NA [<input type="checkbox"/>]

Is physical displacement/relocation expected? 222 Provided estimated number of people to be affected	Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>] TBD [<input type="checkbox"/>]
Is economic displacement expected? (loss of assets or access to assets that leads to loss of income sources or other means of livelihoods) 798 Provided estimated number of people to be affected	Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>] TBD [<input type="checkbox"/>]
The World Bank Policy on Disclosure of Information	
Have relevant safeguard policies documents been sent to the World Bank's Infoshop?	Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>] NA [<input type="checkbox"/>]
Have relevant documents been disclosed in-country in a public place in a form and language that are understandable and accessible to project-affected groups and local NGOs?	Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>] NA [<input type="checkbox"/>]
All Safeguard Policies	
Have satisfactory calendar, budget and clear institutional responsibilities been prepared for the implementation of measures related to safeguard policies?	Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>] NA [<input type="checkbox"/>]
Have costs related to safeguard policy measures been included in the project cost?	Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>] NA [<input type="checkbox"/>]
Does the Monitoring and Evaluation system of the project include the monitoring of safeguard impacts and measures related to safeguard policies?	Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>] NA [<input type="checkbox"/>]
Have satisfactory implementation arrangements been agreed with the borrower and the same been adequately reflected in the project legal documents?	Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>] NA [<input type="checkbox"/>]

III. APPROVALS

Task Team Leader(s):	Name: Alessandra Campanaro	
Approved By		
Safeguards Advisor:	Name: Peter Leonard (SA)	Date: 02-Mar-2016
Practice Manager/ Manager:	Name: Abhas Kumar Jha (PMGR)	Date: 02-Mar-2016