

Environmental Monitoring Report

Project Number: 52026-001
Semestral Report (September-December 2020)
February 2021

People's Republic of China: Anhui Huangshan Xin'an River Ecological Protection and Green Development Project

Prepared by Huangshan Project Management Office for the Huangshan Municipal Government and the Asian Development Bank.

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CURRENCY EQUIVALENTS

(as of 31 December 2020)

Currency unit	–	Yuan (CNY)
CNY1. 00	=	\$ 0. 1532
\$1. 00	=	CNY 6. 5267

ACRONYMS AND ABBREVIATIONS

ADB	-	Asian Development Bank
CSC	-	Construction Supervision Company
EA	-	Executing Agency
EEB	-	Ecology and Environment Bureau
EHS	-	Environmental, Health and Safety
EIA	-	Environment Impact Assessment
EMA	-	External Monitoring Agency
EMP	-	Environmental Management Plan
EMR	-	Environmental Monitoring Report
ESMS	-	Environmental and Social Management System
GAP	-	Gender Action Plan
GIF	-	Green Investment Fund
GRM	-	Grievance Redress Mechanism
HMG	-	Huangshan Municipal Government
HPMO	-	Huangshan Municipal Project Management Office
HTIC	-	Huangshan Trust and Investment Corporation
HXIC	-	Huangshan Xintou Investment Corporation
KfW	-	Kreditanstalt für Wiederaufbau
IA	-	Implementing Agency
IEE	-	Initial Environmental Examination
LIEC	-	Loan Implementation Environment Consultant
MIS	-	Management Information System
PAM	-	Project Administration Manual
PMO	-	Project Management Office
PRC	-	People's Republic of China
RP	-	Resettlement Plan
SME	-	Small and medium-sized enterprise
SPS	-	Safeguard Policy Statement
TA	-	Technical Assistance
WWTS	-	Wastewater Treatment Station
YREB	-	Yangtze River Economic Belt

SUMMARY PROJECT INFORMATION

GENERAL INFORMATION	
Project title:	Anhui Huangshan Xin'an River Ecological Protection and Green Development Project
Date of project effectiveness:	25 September 2020
Executing agency:	Huangshan Municipal Government
Implementing agency:	Huangshan District Government Huizhou District Government Tunxi District Government Xiuning County Government She County Government Yi County Government Qimen County Government and their respective Project Implementing Units
PMO (name of agency):	Huangshan municipal project management office
PMO Environment Officer (name, email):	There are totally 8 PMO environmental officers including 1 from HPMO, 7 from seven district or county IA.
Loan implementation consultant / firm:	ESD
LIEC:	Mr. Zhang Defa, ESD
ADB web link to EMP:	https://www.adb.org/projects/documents/prc-52026-001-pam
Domestic web link to EMP:	Not available
ENVIRONMENTAL SAFEGUARD MONITORING	
ADB environment safeguard category:	B
Environmental report prepared as per ADB requirements for this category:	Initial Environmental Examination
Domestic safeguard report:	Project EIA
Quarterly period covered by this report:	25 September to 31 December 2020
# EMRs to date including this report:	1
Agency/person responsible for internal environmental monitoring:	Seven district or county IA and Construction Supervision Company
Agency/person responsible for external environment monitoring:	Huangshan Angel Environmental Monitoring Co. , Ltd
Agency/person responsible for EMP implementation and progress monitoring:	Mr. Zhang Defa, the LIEC from ESD
Agency/person responsible for independent compliance monitoring:	This is environment safeguard category B project. No independent compliance monitoring for this project is required
Overall status of environmental safeguards:	On track

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EXECUTIVE SUMMARY

1. **Overview.** This semi-annual report presents the status of compliance with the environment management plan (EMP) and environmental and social management system (ESMS) requirement during the project implementation from 25 September (date of project effectiveness) to 31 December 2020.
2. **PMO and HTIC environment persons.** During the reporting period, the project office, the implementing agency, the contractor, the construction supervision company and the consultant assigned qualified environmental personnel to coordinate the implementation of environmental management requirements. HTIC assigned three qualified environmental commissioners to support the environmental management of green development projects.
3. **Environmental protection clause:** Huangshan PMO has distributed the environmental management plan to the project implementation agencies and design units. The bidding documents, the civil work contract signed with the contractor and the supervision contract signed with the construction supervision company all contain environmental protection clauses, including the prevention and control requirements of COVID-19 epidemic situation. The contractual arrangements are fully in line with the environmental management plan
4. **Mitigation measures are implemented as required.** During the reporting period, the project office, with the assistance of consultants, prepared the COVID-19 epidemic prevention and control measures and incorporated into the updated EMP. Mitigation measures are all being implemented as required in EMP.
5. **No external monitoring was carried out during the reporting period, the results of internal monitoring and compliance monitoring met the requirements.** Since the external monitoring contract was signed late on December 21, 2020, the external monitoring work was not carried out in time during the reporting period (until December 31, 2020), the implementation and results of the first monitoring will be reported in the next semi-annual environmental monitoring report. During the reporting period, the project office, the implementing agency and consultants visited the project site and found that EMP was effectively implemented without significant environmental impacts.
6. **Public participation and grievance redress mechanism have been implemented.** Project implementing units, design institutes and EIA units have carried out relevant public consultation activities in accordance with ADB requirements. GRM has been established and implemented as required and no complaints were received during the reporting period.
7. **Training and capacity-building plan have been carried out effectively.** In December 2020, loan implementing environmental experts conducted environmental management training for project offices, project implementation units, contractors and supervisors. In the activities of ADB - KfW Virtual Loan Inception Mission, training on various contents of project management including environmental management were conducted, and environmental management requirements was explained in construction site management training.
8. **HTIC has established and implemented ESMS as required.** The establishment of the project ESMS have been completed, and HTIC issued a formal instruction to integrate the ESMS into the relevant business procedures of the Green Investment Fund of Huangshan Trust Investment Group. At present, rapid environmental assessment documents for one of the first batch of selected projects (Yi County Younong Eco-Agriculture Co., Ltd.) are being prepared.

9. **Compliance with the loan agreement.** During the reporting period, the implementation of the environmental management plan was in compliance with the environmental safeguard and security provisions in the project agreement.

10. **The action of ADB -KfW Virtual Loan Inception Mission memorandum of understanding on the environment has been completed as required.** The environmental measures proposed in the memorandum of understanding (including the preparation of COVID-19 risk assessment and security procedures, the updating of the Chinese version of the EMP and ESMS website, the recruitment of environmental monitoring agencies and the first semi-annual environmental monitoring report) are completed as required.

11. **Lessons learned and next steps.** Project agencies in Huangshan Municipality have no previous experience with ADB - funded projects and safeguard requirements. Project implementation consultants will continue to conduct centralized training and in-work training as planned, and maintain regular communication with project stakeholders. Monitoring activities for the next period (1 January-30 June 2021) will be carried out in accordance with the EMP monitoring plan and the next semi-annual environmental monitoring reports will be submitted as planned.

I. INTRODUCTION

A. Purpose of report

12. The purpose of this environmental monitoring report (EMR) is to describe and assess progress for implementation of the environmental management plan (EMP) for the Anhui Huangshan Xinan River ecological protection and green development project, for the reporting period 25 September 2020 to 31 December 2020. This EMR is submitted in compliance with the Safeguard Policy Statement (SPS) of the Asian Development Bank (ADB) and the loan agreement between ADB and the project executing agency.

13. This is the first EMR for the project. It covers the bidding and construction phases of the project. The report describes: (i) project readiness with respect to fulfilling environmental requirements (ii) implementation of mitigation measures; (iii) monitoring activities; (iv) public consultations and including grievance redress; (v) training and capacity building; (vi) reporting; and (vii) an overall assessment of key achievements, challenges, issues, corrective actions, and lessons learned, during the reporting period.

B. Project outcomes and outputs

14. The project is aligned with the following impact: sustainable economic growth and environmental improvement in the Yangtze River Economic Belt (YREB) achieved. The project will have the following outcome: economic and environmental conditions in the upstream of Xin'an River improved.

15. The project is expected to produce four outputs, namely,

16. **Output 1: Urban point source pollution management facilities upgraded.** This output will include (i) sewage and stormwater management through upgrading the existing centralized sewerage systems in Huangshan's central district and four county urban areas; and (ii) river rehabilitation and flood control through river embankment.

17. **Output 2: Rural point and non-point source pollution control facilities and systems enhanced.** Innovative approaches supporting green agricultural and ecological practices will be adopted. This includes point and non-point source pollution controls through (i) decentralized sewage and on-site treatment system and environment management in rural villages; (ii) changing fertilizer application practices, including the improved use of organic fertilizer and biological pesticides with low toxicity at agricultural and forestry sites; and (iii) improvement of pine forest conditions through disease monitoring and prevention.

18. **Output 3: Green financing mechanisms piloted.** This includes the establishment, piloting and operationalization of a (i) Green Incentive Fund to encourage farmers to adopt sustainable farm management practices to address agricultural non-point source pollution in Huangshan; and (ii) green investment fund to invest in SMEs involved in green business.

19. **Output 4: Capacity for ecological system and project management strengthened.** This will enhance HMG's capacity in water resources and flood forecasting management in the Xin'an River Basin. This includes (i) establishing environmental, health, and safety management systems to strengthen its industrial and urban environmental monitoring and emergency response capacity; (ii) integrated smart¹⁰ MIS; (iii) studies on Huangshan city green development strategy, eco-compensation mechanisms, rural wastewater discharge standards, and green farming certification; and (iv) HMG implementation support and capacity development.

C. Project implementation progress

20. The date of project effectiveness is 25 September 2020. As of 31 December 2020, procurement of 6 civil construction contracts and 3 consulting service contracts were completed and some of the construction contracts were initiated. Implementation progress for subcomponents is summarized in Table 1.

Table 1: Purchased contracts implementation progress as of 31 December 2020

No.	Contract Name	Contract Content	Name of contractor	Implementation Description
1	Works-HS-4	Sewage and Stormwater Sewer Upgrade Project in Huangshan District	Zhejiang Jiuhe Environmental Limited Company	Construction was officially initiated on 30 December 2020
2	Works-XN-1	Sewage and Stormwater Sewer Upgrade Project in Xiuning County - 1	Anhui Xinda Construction and Installation Co. , Ltd	Early construction was initiated on 28 December 2020, Construction will be officially initiated in January 2021
3	Works-YX-1	Sewage and Stormwater Sewer Upgrade Project in Yi County	Anhui Xinjian Holdings Limited	Construction was officially initiated on 22 December 2020
4	Works-TX-1	Village Environment Improvement Project in Tunxi District-1	Hangzhou Xiaoshan Garden Group Limited Company	Procurement completed in August; About 70% of the civil works was completed
5			Kunpeng Construction Group Co. , Ltd	Notice of winning bid Was issued on 28 December 2020
6	WorksTX-3	Tunxi Ecological Village Construction projects-3	Kunpeng Construction Group Limited	Started on December 19, 2020, About 30% of the work was completed
7	Serv-HSC-5	Project Management Supporting Consulting Service	ESD China Limited	Entered construction site in October 2020
8	Serv-HSC-18	Construction Supervision Service - Xiuning County	Individual experts	Contract was signed in April 2020, work was completed
9	Serv-HSC-19	Construction Supervision Service - Xiuning County	Individual experts	Contract was signed in April 2020, work was completed

21. In addition, other sub-contract implementation progress is as follows,

22. Sewage and Stormwater Sewer Upgrade Project in Huizhou District(Works-HZ-1) : Tenders were opened on December 17, 2020, this contract is still in the bidder clarification stage due to the abnormal low bid;

23. Village Environment Improvement Project in Huizhou District (Works-HZ-2):Invitation for bids was issued on December 21, 2020;

24. Smart EHS Management System in Huizhou District Industrial Park(Goods-HSC-7-Lot 1) :Invitation for bids was issued on December 7, 2020;
25. Sewage and Stormwater Sewer Upgrade Project in She County-1 (Works-SX-1) :Tenders were opened on December 29, 2020;
26. Xinhua Village Environment Improvement Project in Huangshan District(Works-HS-1) :Invitation for bids was issued on January 4, 2021;
27. Caocun River Rehabilitation Project in Huangshan District (Works-HS-2) :Invitation for bids was issued on January 4, 2021.
28. Green Investment Fund (GIF) implementation progress is as follows,
29. Xintou Investment Corporation (HXIC), a subsidiary of Huangshan Trust and Investment Corporation(HTIC), will act as equity investment manager and general partner of the management and implementation in accordance with the principles, objectives, compliance and guidelines of the Loan Agreement (LA) and Project Agreement (PA) signed with ADB and KfW.
30. Up to date, HTIC has not yet signed the KfW on-lending agreement with the HMG, and it is expected to be completed in February 2021. HXIC, under the supervision of HTIC, carried out the selection of the first batch of investment project, of which initially selected 2 projects, and is preparing a rapid environmental assessment of one of the projects (Yi County Younong Eco-Agriculture Co., Ltd.).

II. IMPLEMENTATION OF ENVIRONMENTAL MANAGEMENT PLAN (EMP)

A. Summary of the project environmental management plan

31. The project environmental management plan (EMP) is the primary reference document for the government and ADB for all environment-related mitigation, monitoring, reporting, and training activities for the project. Timely and effective implementation of the EMP is a key condition of the loan agreement between the government and ADB. The EMP is to be implemented in all phases of the project: design, pre-construction, construction, and operation. The EMP is to ensure project compliance with PRC environmental laws and ADB's Safeguard Policy Statement (SPS 2009).

32. The EMP describes: the roles and responsibilities of all project agencies to implement this EMP; anticipated impacts and mitigation measures; inspection, monitoring, and reporting arrangements; training and capacity building; grievance redress mechanism (GRM); and public consultation and awareness raising.

33. **Project institutional arrangements (Section B of the EMP).** This section of the EMP describes the roles and responsibilities of relevant agencies for EMP implementation. For this project, the principal person responsible for EMP coordination is the PMO Environment Officer (Yin quan, HPMO), acting on behalf of the HPMO. The implementing agencies, contractors, and construction supervision companies are responsible for on-site implementation of the EMP. Guidance and supervision to the PMO Environment Officer is given by the Loan Implementation Environment Consultant (Mr. Zhang Defa, ESD).

34. **Potential impacts and mitigation (Section C of the EMP).** This section of the EMP summarizes the potential impacts of the subprojects in the three districts and four counties during project preparation, design, construction and operation, and proposed mitigation measures. The effectiveness of these measures will be evaluated based on environmental inspections and monitoring to determine whether they should be continued, improved or adjusted.

35. **Training (Section E of the EMP).** This section of the EMP describes the training program for environmental safeguards, including the recipients and frequency of training.

36. **Grievance Redress Mechanism (Section F of the EMP).** This section of the EMP identifies the mechanisms to receive and manage any public environmental and/or social issues which may arise due to the project.

37. **Environmental monitoring program (Section D of the EMP).** Three types of project monitoring will be conducted under the EMP: (i) internal monitoring – to be conducted by the seven IAs and the CSCs; (ii) external monitoring – of air, water and noise standards – to be conducted by the certificated EMA in each project county/district; and (iii) compliance monitoring – to be conducted by both the EMA and LIEC, to ensure the EMP is being implemented.

38. **Public Consultation (Section G of the EMP)** During construction, the project will continue to seek public consultation and raise awareness of project activities, especially those that may impact the public. The public consultation plan includes public participation in evaluating environmental benefits and impacts.

39. **Reporting.** The reporting requirements for the project, including the responsible agencies and reporting frequency, were described in EMP.

B. Establishment of project agency personnel

40. During the reporting period, the project office, the implementing agency, the contractor, the construction supervision company and the consultant designated qualified environmental personnel to coordinate the implementation of the environmental management requirements in accordance with the requirements of ADB. HTIC has also assigned three qualified environmental commissioners (two are environmental major) to support the environmental management of the Green Development Project. Moreover, HTIC has issued a formal directive to integrate the environmental and social management system (ESMS) into the relevant business procedures of Huangshan trust group on green investment funds and submitted the directive document to Huangshan Municipal Government and ADB.

41. Table 2-1 and Table 2-2 summarizes the project specified environmental management personnel contacts.

Table 2-1: Information of dedicated environmental management correspondents

Cities and counties	Institutions	Name of institution	Environmental Officer	Email
Huangshan City	Huangshan Project Office	Huangshan Municipalities	Yin Quan	hsshxmb@126.com
Huangshan Mountain	Huangshan District Project Office (Implementation Agency)	Huangshan District Government	Qin Ling Mountains	
Huizhou District	Huizhou District Project Office(Implementation Agency)	Huizhou District Government	Ling Ding	
Tunxi District	Tunxi District Project Office (Implementation Agency)	Tunxi District Government	Cheng Shi	
Suning District	Xiuning District Project Office (Implementation Agency)	Xiuning District Government	Chen Weisong	
She County	She County Project Office (Implementation Agency)	She County Government	Fang Xiaohui	hssxshb@126.com
Yi County	Yi County Project Office (Implementation Agency)	Yi County Government	Wang Xin	
Qimen County	Qimen County Project Office (Implementation Agency)	Qimen County Government	Fang Sheng	
Municipal Forestry Bureau	Implementing agency	Municipalities	Xu Rui	hsssfz@163.com

Cities and counties	Institutions	Name of institution	Environmental Officer	Email
Huangshan City	Implementing agency	Huangshan Trust Investment Company	Jiang Junyu	

Table 2-2: Information of dedicated environmental management correspondents

Contract number	Main content	Company Name		Environmental Officer
Works- HS-4	Sewage and Stormwater Sewer Upgrade Project in Huangshan District	Construction Unit	Zhejiang Jiuhe Environmental Limited Company	Fang Zhengfei
		Supervision Unit	Hubei Three Gorges Construction Project Management Co. , Ltd	Cheng Hongyu
Works- TX-1	Village Environment Improvement Project in Tunxi District-1	Construction Unit	Hangzhou Xiaoshan Garden Group Co. , Ltd	Cheng Yuping
		Supervision Unit	Anhui Hengxin Construction Engineering Management Co. , Ltd	Chen Hui
WorksT X-2	Village Environment Improvement Project in Tunxi District-2	Construction Unit	Kunpeng Construction Group Co. , Ltd	Gao Liang
WorksT X-3	Tunxi Ecological Village Construction Project-3	Supervision Unit	Anhui Hengxin Construction Engineering Management Co. , Ltd	Chen Hui
Works- XN-1	Sewage and Stormwater Sewer Upgrade Project in Xiuning County - 1	Construction Unit	Anhui Xinda Construction and Installation Co. , Ltd	Cui Tao
		Supervision Unit	Anhui Hongji Construction Project Management Co. , Ltd	Yu Changzhong
Works- YX-1	Sewage and Stormwater Sewer Upgrade Project in Yi County	Construction Unit	Anhui Xinjian Holdings Limited	Wang Qing
		Supervision Unit	Jiangsu Yutian Engineering Consulting Group Co. , Ltd	Zhou Chunlong

42. On December 2, 2020, environmental management experts of consulting companies organized systematic and practical environmental safety and security training for at all levels project management offices, implementing units, HTIC and other relevant units, in order to clarify the institutional responsibilities for the implementation of environmental management requirements, and maintain regular communication among project stakeholders.

43. **Conclusion.** The project organization setup plan in the environmental management plan is being implemented as required, and the implementation meets the requirements of the environmental management plan.

C. Implementation of the project mitigation measures

44. Table 3 summarized the implementation status of the mitigation measures in the EMP as of 31 December.

Table 3: Project impacts, mitigation measures, and implementation status

Item	Potential impacts / issues	Mitigation measures	Implementation status	Whether in compliance
Detailed design stage	Institutional strengthening for EMP Implementation and supervision	<p>At least 1 month before construction: (i) reconfirm the full-time status of the HPMO Environmental Officer for the project; (ii) appoint at least one environment officer in each of the 7 IAs (excluding HTIC, which will separately engage an environment officer for the ESMS).</p> <p>At least 2 months before any construction, engage LIEC.</p> <p>At least 2 months before any construction, provide training to all environmental staff for EMP implementation.</p> <p>Confirm that at least one certified EMA has been recruited for the project at least 2 months before any construction.</p> <p>When the contractors and CSCs have been engaged, conduct training on the project EMP.</p>	Environmental protection responsible persons of municipal/county project offices and subcontractors have been appointed	yes
	Updating the EMP	<p>Update the mitigation measures defined in this EMP based on final detailed design. This will include the specific designs for the use of biopesticides which have been prepared during the detailed designs (see IEE Section V.D.6 and Section X).</p> <p>Asbestos. Under ADB's List of Prohibited Investment Activities (SPS, 2009), the use of asbestos is prohibited except for the "purchase and use of bonded asbestos cement sheeting where the asbestos content is <20%" (SPS 2009: 76). However: (i) in practice it is difficult to assess whether asbestos content is <20%; and (ii) international development banks are increasingly banning the use of all asbestos from their projects. To ensure international best practice for human health and safety for this project: no asbestos of any kind will be used in any materials supported by the project.</p> <p>Check with the design institute and HPMO to ensure the proposed materials do not include the use of asbestos.</p> <p>Submit the updated EMP to ADB for review;</p> <p>In case of major changes of project location and/or additional physical components, form a DEIA team to conduct additional DEIA and public consultation. The revised DEIA should</p> <p>be submitted to Huangshan and district/county EEBs and ADB for approval and disclosure. To determine if the change is minor or major the HPMO will consult with ADB.</p>	<p>The project EMP and ESMS was translated into Chinese and distributed to all relevant domestic agencies. In addition, the Chinese version of the updated EMP is publicly available on the HPMO website.</p> <p>The construction materials in the project do not contain asbestos.</p>	yes
Construction Preparation	Environmental monitoring plan	Prior to construction, the HPMO will hire an EMA for environmental monitoring;	Recruitment for environmental monitoring agencies	yes

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Item	Potential impacts / issues	Mitigation measures	Implementation status	Whether in compliance
ion		Prepare detailed monitoring plan in accordance with the monitoring plan in this EMP.	has been completed.	
	Bidding and contract documents	Mitigation measures in the EMP are incorporated in all bidding documents; Bidding documents are sent to ADB for review; Prepare environmental contract clauses for contractors.	Is being implemented, the relevant experts have reviewed the preliminary design documents, bidding documents, bid evaluation reports and gave expert opinions.	yes
	EMP training	LIEC, or invited environment specialists and/or officials from EEBs provide training on construction environmental management, implementation, supervision, to contractors and CSCs, in accordance with the training plan in this EMP	Training on EMP was conducted by the loan execution environmental consultant in December 2020.	yes
	Establish GRM	Responsibility for GRM implementation is assigned to the HPMO and IA Environmental Officers and HPMO Social Officers, and is included in their terms of reference; HPMO and IA personnel will be aware of, and trained in, the GRM, and will help support the environmental and social officers when necessary. Key contact details for the GRM (phone number, fax, address, email) will be provided on the HPMO, IAs and/or EEB public websites and information boards at construction sites.	Grievance redress mechanisms has been established.	yes
	Site EMPs	Prior to any works, prepare site-specific EMP for individual construction sites	being implemented	yes
		Review and ensure site EMP complies with the measures in this EMP	being implemented	yes

Item	Potential impacts / issues	Mitigation measures	Implementation status	Whether in compliance
Wastewater management	Construction wastewater and domestic wastewater generated from construction activities	<p>Sedimentation tanks will be installed on site and, after settling out of solids, the upper clear liquid will be recycled for spraying the construction site (dust control), and the waste residue in the tank will be cleared and transported to the construction spoil disposal sites.</p> <p>Oil-water separators will be installed before the sedimentation tank for oily wastewater treatment.</p> <p>All sites for washing of construction equipment will be equipped with water collection basins and sediment traps.</p> <p>Domestic wastewater generated from construction camps will be disposed in three ways:</p> <p>for project sites nearing septic tanks in surrounding villages, domestic wastewater will be treated by the septic tanks before being used for irrigation; (ii) for project sites accessible to municipal sewerage systems, domestic wastewater will be discharged into the nearest sewerage system; (iii) for project sites neither close to villages nor sewerage systems, temporary septic tanks will be constructed for the centralized treatment of domestic wastewater.</p> <p>Fuel storage, machinery maintenance workshop and vehicle cleaning areas must be stationed at least 500 m away from the waterbody.</p> <p>Storage facilities for fuels, oil, and other hazardous materials will be within secured areas on impermeable surfaces and provided with bunds and cleanup installations.</p> <p>Contractors will develop actions for control of oil and other dangerous substances as part of their site EMPs.</p> <p>Contractors' fuel suppliers must be properly licensed. They shall follow proper protocol for transferring fuel and the PRC standard of JT3145-91 (Transportation, Loading and Unloading of Dangerous or Harmful Goods. revised).</p> <p>Labor camps will be located at least 500 m from waterbody.</p> <p>Portable toilets and on-site wastewater pre-treatment systems will be installed at construction camps along with proper maintenance protocols.</p>	being implemented	yes
Water supply	Interruption to existing water supply due to works	<p>Ensure that existing water and wastewater services continue to be provided to communities during the civil works.</p> <p>Any interruptions to such services as a result of the project works are as limited as possible.</p> <p>Prior to any such interruptions, consultations are held with all affected communities.</p>	being implemented	yes
Ambient Air	Dust generated by construction activities, gaseous air pollution (CO, CH and NO ₂) from construction machinery,	<p>Establish a series of measures for dust control in construction sites before work commencement.</p> <p>Install barriers at the boundary of construction sites with a height no less than 2.5m.</p> <p>Spraying water daily on construction sites where fugitive dust is being generated. Before excavation, proper spraying shall be performed on the working surface to maintain a certain humidity to reduce dust generation.</p> <p>Cover stockpiles with dust shrouds or tarpaulin to avoid</p>	being implemented	yes

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Item	Potential impacts / issues	Mitigation measures	Implementation status	Whether in compliance
	and fugitive emission of odor (NH3 and H2S) from existing sewage pipes	<p>spillage or dust generation. For the earthwork management for backfill, measures will include surface press and periodical spraying and covering. Extra earth will be cleared from the project site in time to avoid long term stockpiling.</p> <p>Vehicles with a closed load-carrying case shall be used to transport potentially dust- producing materials.</p> <p>Design haulage routes and schedules to avoid transport occurring in the central areas, traffic intensive areas or residential areas.</p> <p>Install vehicle washing equipment or conduct wheel washing manually at each exit of the work area to prevent trucks carrying mud and soils onto public roads.</p> <p>Keep construction vehicles and machinery in good working order, regularly service and turn off engines when not in use. Ensure vehicle and machinery emissions comply with PRC standards of GB18352-2005, GB17691-2005, GB11340-2005, and GB18285-2005.</p> <p>During high wind, dust-generating operations shall not be performed and onsite construction materials shall be covered with shrouds. When wind speed exceeds PRC Levels 4 or 5, excavation, soil transportation and demolition works are not permitted. Special precautions need to be applied in the vicinity of sensitive receptors such as schools, kindergartens and hospitals.</p> <p>Transport the sludge from existing sewer pipes offsite timely to reduce fugitive odor emission.</p> <p>Use exhaust fans at welding sites to increase ventilation and promote the diffusion of organic exhaust gas onsite.</p> <p>Timely monitoring of air quality and inspections during construction.</p>		

Item	Potential impacts / issues	Mitigation measures	Implementation status	Whether in compliance
Noise	Noise generated from construction and transportation activities	<p>Construction activities will be planned in consultation with local authorities and communities so that activities with the greatest potential to generate noise are planned during periods of the day that will result in the least disturbance.</p> <p>Construction works will be limited to daytime and will be strictly prohibited during the nighttime (22:00 h to 06:00 h) and noon (12:00 h to 14:00 h). Exceptions will only be allowed in exceptional cases, and only after getting the approval of the surrounding residents, local environmental authority and other relevant departments. The contractor shall apply for the approval seven days before the construction works. Nearby residents will be notified of such nighttime activities well in advance.</p> <p>When preparing construction planning, simultaneous high-noise activities will be avoided. High noise activities will be scheduled during the day rather than evening hours. Similarly, the construction sites will be planned to avoid multiple high noise activities or equipment from operating at the same location.</p> <p>Movable noise barriers will be adopted during construction at daytime. The barriers will:</p> <p>be of adequate size and thickness to reduce construction noise to the required standards; and (ii) be placed to maximize noise absorption.</p> <p>Low-noise equipment will be selected as much as possible. Equipment and machinery will be equipped with mufflers and will be properly maintained to minimize noise.</p> <p>Transportation routes and delivery schedules will be planned to avoid densely populated and sensitive areas and high traffic times. Vehicles transporting construction materials or waste will slow down and not use their horn when passing through or nearby sensitive locations, such as residential communities, schools and hospitals. No honking is permitted during nighttime.</p> <p>Monitor noise at sensitive areas at regular intervals. If noise standards are exceeded, equipment and construction conditions shall be checked, and mitigation measures shall be implemented to rectify the situation.</p> <p>Conduct regular interviews with residents/villagers adjacent to construction sites to identify noise disturbance. Community feedback will be used to adjust work hours of noisy machinery.</p> <p>For the households that will be within 60 m of construction works (Section V.D.3 of IEE), particular attention will be provided. This will include: (a) follow-up consultations with these households prior to the start of any works, to specify the exact planned dates and schedule of works, nature of works, equipment to be used, safety measures, and public access during construction; (b) installation of noise barriers to reduce as much of the emissions as possible, and/or installation of additional layers on the windows of the affected homes as necessary, based on the assessment of the most technically effective method and feedback from the community consultations; (c) agreement on the duration of daily works.</p>	being implemented	yes

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Item	Potential impacts / issues	Mitigation measures	Implementation status	Whether in compliance
Soil erosion	Soil erosion caused by construction activities, earthworks	<p>Prepare site soil erosion management plans before works begin.</p> <p>Level the ground for the temporary spoil storage sites with proper blocking measures.</p> <p>During construction phase, the earthwork will be reasonably planned and balanced to reduce the stockpiling of spoil onsite as much as possible. Spoil will be reused onsite to the maximum extent feasible as fill. The spoil sites will be away from roads and be restored after storage activities.</p> <p>Limit construction during rainy season and high winds. Appropriate stormwater drainage systems and slope protection measures will be implemented to minimize soil erosion, such as perimeter bunds and temporary detention and settling ponds to control topsoil runoff.</p> <p>The construction schedule will be well designed to minimize the exposure time of bare land surface and stabilize all earthwork disturbance areas timely after the earthworks are completed.</p> <p>Minimize open excavation areas and slope during trenching.</p> <p>Construction camps, storage areas and access roads will be located within the acquired land to minimize the impacts on the soil and land vegetation in surrounding area.</p> <p>Landscaping will only use native plant species.</p> <p>Construct intercepting channels and drains to prevent runoff entering construction sites and divert runoff from sites to existing drainage or open ground for watering the vegetation.</p> <p>Rock material for the gabion cages for river revetment will be sourced from: (i) licensed suppliers of construction materials; and (ii) the old revetment material extracted from the Caocun River as part of the project works.</p>	being implemented	yes
Solid Waste	Solid waste generated by construction activities and from workers' camps	<p>Provide appropriate waste collection and storage containers at locations away from surface water or sensitive spots;</p> <p>Arrange with municipal waste collection services for regular collection of waste;</p> <p>Properly remove and dispose residual materials, wastes and contaminated soils. Paving or vegetating shall be done as soon as the materials are removed to stabilize the soil;</p> <p>Burning of waste is strictly prohibited;</p> <p>Provide sufficient garbage bins at strategic locations and ensure that they are protected from birds and vermin, and emptied regularly by the municipal waste collection systems.</p> <p>CONTRACTOR PERFORMANCE TARGET:</p> <p>No uncollected waste at close of construction activities each day.</p>	being implemented	yes

Item	Potential impacts / issues	Mitigation measures	Implementation status	Whether in compliance
Ecology	Protection of flora and fauna around construction sites	<p>Minimize damage to vegetation. Minimize the damage to existing vegetation and recover the vegetation timely after the completion of construction works. Native plant species will be used for replanting and site rehabilitation.</p> <p>The surface soil (0-30 cm) will be stored separately for reuse for landscape greening or agriculture. The stockpiling shall have a height less than 5m and a slope less than 1:1.5 with proper compaction to avoid soil erosion.</p> <p>Minimize damage to aquatic habitats. For the stone debris removal from river channel in Caocun River, only debris from previous river revetment works will be removed, and all works shall be conducted manually without intervention of any mechanical equipment to prevent mechanical damage to the riverbed.</p> <p>All river channel related works will be carried out during dry season (October to March) to minimize potential impacts on the aquatic habitat.</p> <p>Landscaping and site rehabilitation. All planting activities under the project, including re-vegetation, landscaping, and rehabilitation of construction sites, will only use plant species which are (i) native (i.e. naturally occurring) to the Xin' an River basin, and (ii) are sourced from local stock within Huangshan Municipality.</p> <p>In the event that non-native seedlings are required for rapid stabilization of exposed soils and sites, HMG will and will cause the IAs to ensure that only sterile seedlings are used to prevent the spread of weeds.</p> <p>Training. Provide trainings to contractors and workers to increase their awareness on the need to protect the environment, wildlife and vegetation around the construction sites.</p> <p>Site inspection. The CSCs and the environmental officer of the HPMO will regularly inspect construction sites to ensure that habitats are well demarcated, and workers are fully informed of "no-go" areas.</p> <p>Biopesticides. Before any use of biopesticides, confirm that: (a) a complete inventory of the pest species to be addressed for each demonstration site has been prepared; (b) any "pest" species which are rare, threatened, restricted range, or protected species have be excluded from the pest management program; (c) the specific organisms or other agents to be used as biopesticides have been identified during the detailed engineering designs; (d) each proposed agent or method has been confirmed to be highly crop-specific and will only act on the intended pest species, and will not affect local flora and fauna (e.g. the use of water mixed with tobacco will not be used as it may impact aquatic organisms in nearby streams); (e) specific application procedures, volumes, and post-application monitoring have been detailed, to ensure safe and responsible use of the biopesticides.</p>	being implemented	yes

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Item	Potential impacts / issues	Mitigation measures	Implementation status	Whether in compliance
Protected Area	Damage to protected area during construction	<p>Engineering design will be in line with the Taiping Lake Scenic Zone Master Plan (2015- 2030) and Huashan Mysterious Grottoes Scenic Zone Master Plan (2007-2025);</p> <p>All works will be conducted within the confirmed ecological red line only;</p> <p>Avoid setting up temporary storage sites for construction waste within scenic zones, and all waste generated will be transported out for disposal timely;</p> <p>For subprojects near riverway, proper onsite wastewater treatment facilities (e.g. sedimentation tank) will be set up to avoid direct discharge of wastewater and impairing of aquatic ecosystem along the river;</p> <p>Design the location and shape of spoil piles before construction;</p> <p>Vehicles will slow down within scenic zones and frequent water spraying in construction sites will be performed to minimize dust;</p> <p>Recover the vegetation in construction sites timely after the completion of construction works to minimize soil erosion and visual landscape impact in scenic zones.</p>	being implemented	yes
Physical cultural resources	Damage to known or unknown above or below-ground cultural relics	<p>Establish chance-find procedures for physical cultural resources;</p> <p>If a new site is unearthed, work shall be stopped immediately and the IA, HPMO and local CRB promptly notified. The construction will resume only after a thorough investigation and with the permission of appropriate authority.</p>	being implemented	yes
Community and occupational health and safety	Site and access safety	<p>Erect signs will be placed at construction sites in view of the public, warning people of potential dangers such as moving vehicles and excavations, and raising awareness on safety issues;</p> <p>Assign personnel to direct pedestrians around dangerous work areas;</p> <p>Ensure that all sites are secure, discouraging access through appropriate fencing;</p> <p>Place clear signs at construction sites in view of the people at risk (including workers and nearby communities), warning people of potential dangers such as moving vehicles, hazardous materials, excavations, and raising awareness on safety issues;</p> <p>At the end of each day, all sites and equipment will be made secure (through fencing and/or lock-down of equipment) to prevent public access;</p> <p>Erect safety barricades around all excavations;</p> <p>Hold a public consultation meeting prior to commencing construction to discuss issues associated with ensuring the safety of nearby communities in vicinity of the construction site.</p>	being implemented	yes

Item	Potential impacts / issues	Mitigation measures	Implementation status	Whether in compliance
	Occupational health	<p>Provide personal protection equipment to workers as needed, e.g. safety boots, helmets, gloves, protective clothing, goggles, ear protection in accordance with health and safety regulations.</p> <p>An emergency response plan to take actions on accidents and emergencies, including environmental and public health emergencies associated with hazardous material spills and similar events will be prepared, and submitted to the IA for review and appraisal. A fully equipped first-aid base in each construction site will be provided.</p> <p>A Records Management System will be established to document occupational accidents, diseases, and incidents, that: (a) includes a tracking system to ensure that incidents are followed-up; (b) can easily retrieve records; and (c) can be used during compliance monitoring and audits. The system will be backed up on at least one external hard drive to protect records against loss or damage.</p> <p>Ensure that safety, rescue and industrial health matters are given a high degree of publicity to all persons regularly or occasionally on the Site. Posters drawing attention to site safety, rescue and industrial health regulations will be made or obtained from the appropriate sources and will be displayed prominently in relevant areas of the site.</p> <p>Train all workers in basic sanitation and health care issues, general health and safety matters, and on the specific hazards of their work and sites and the requirements for community safety.</p> <p>Asbestos. In the event that materials containing asbestos are suspected: (i) the contractor will immediately inform the IA, who will inform the HPMO; (ii) the contractor will subcontract the municipal center for hazardous waste, who will be responsible for the safe handling, transport, and disposal of the materials; (iii) such materials will only be disposed in a landfill site certified and designed to receive hazardous materials.</p>	being implemented	yes

45. The project EMP and ESMS was translated into Chinese and distributed to all relevant domestic agencies. In addition, the Chinese version of the updated EMP is publicly available on the HPMO website.

46. EMP and domestic requirements for environmental mitigation measures implementation and environmental monitoring are included in the civil engineering tender documents. When the consultant reviewed the tender documents, it was found that the prevention and control measures for the COVID-19 epidemic situation were used for the projects that had been started, rather than for the bidders, and the project office, with the assistance of the consultant, immediately modified the epidemic prevention and control measures.

47. Safety measures for coronavirus (COVID-19) pandemic: the PMO confirmed that each contractor has developed an H&S plan and an emergency response plan in response to COVID-19 outbreak based on the updated project EMP, and assigns a staff responsible for on-site environment, health, and safety. All plans were reviewed and approved by the IAs. The mission noticed that body temperature test; health code check and disinfection measures are being implemented at construction sites. The contractors informed the mission

trainings on health and safety have been provided to all construction workers on a weekly basis.

48. During the reporting period, the project office, implementing agencies and consultants visited the project site, in particular the Sewage and Stormwater Sewer Upgrade Project in Yi County (Works-YX-1) and the Village Environment Improvement Project in Tunxi District-1, which have already started (Works-TX-1、Works-TX-3). During the on-site inspection, it was found that the mitigation measures of EMP and domestic environmental protection requirements were generally well implemented in the construction, such as regular spraying of water and dust control, correct wearing of safety helmets and safety ropes, and there was no significant environmental impact during the on-site visits.

49. **Conclusion.** Mitigation measures in the environmental management plan are being implemented as required and the project meets the requirements of the environmental management plan.

D. Implementation of the project monitoring program

50. **Internal monitoring.** During the construction, the construction supervision company and seven implementing agencies will be responsible for internal environmental monitoring according to the monitoring plan. The results will be reported to the implementing agency and Huangshan Project Office through the monthly report of the construction supervision company. The project office, the project implementing agencies and the project implementing organization have been trained. Implementing agencies have appointed environmental officers to update the internal environmental monitoring results on schedule after the contract package construction begins.

51. **External environmental monitoring.** The consulting management support consultant (ESD) is responsible for the recruitment of environmental external monitoring of the project. On December 21, the recruitment of the external environmental monitoring unit (Huangshan Angel Environmental testing Co. , Ltd.) was completed and the environmental monitoring technical service contract was signed.

52. Since the external monitoring contract was signed late on December 21, 2020, the external monitoring work was not carried out in time during the reporting period (until December 31, 2020), so the implementation and results of the first monitoring will be reported in the next semi-annual environmental monitoring report.

53. **Compliance monitoring.** The loan implementation environmental consultant will review the progress of the project and the implementation of the environmental management plan by field visits and environmental monitoring reports provided by the environmental monitoring agency. The work of loan implementation consulting team began in October 2020, including an environmental expert.

54. The following tasks were carried out by loan implementing environmental consultant during the reporting period:(i) on-site visits, including municipal project offices and county/district project sites;(ii) review of project documents such as research, preliminary design and bidding documents;(iii) environmental and social security training and communication for municipal/county project offices, implementing agencies and Huangshan Trust and Investment Corporation;(iv) review of project progress and implementation of environmental management plan; and (vi) preparatory work for environmental monitoring;(vii) Assist municipal project office environmental officers in the preparation and submission of the first semi-annual environmental monitoring report to ADB.

55. During the reporting period, the project management office, implementing agencies and consultants visited the construction site, in particular the sewage and stormwater sewer upgrade project and the Zhang River rehabilitation project in Yi county(Works-YX-1, Works-YX-2) and the Tunxi village environment improvement project, which have already started(Works-TX-1、Works-TX-3). During site inspection, it was found that the mitigation measures of EMP and domestic environmental protection requirements were generally well implemented in construction, and no significant environmental impact was found in visits.

56. **Conclusions and next steps.** During the reporting period, no external environmental monitoring was carried out. The first monitoring will be carried out in the next semi-annual report period (1 January-30 June 2021).Internal monitoring and compliance monitoring were carried out as required and the results met the EMP requirements.

E. Public consultations and grievance redress mechanism

57. This section summarizes the implementing progress of public consultations and grievance redress mechanism during the current reporting period.

58. During construction, the project will continue to seek public consultation and raise awareness of project activities, especially those may impact the public such as noise and dust from excavation of pipe trenches. The implementing agencies are responsible for public participation during project implementation. They will be supported by the HPMO Environment and Social Officers and the LIEC. Table 4 summarizes the Implementation status public consultation plan.

Table 4: Public Consultation and Participation Plan

Organizer	Approach	Times/Frequency	Subjects	Participants	Implementation status
HPMO, IAs, LIEC	Site visits, informal interviews	At least once a week during peak construction	Construction impacts; adjusting mitigation measures if necessary; feedback	Affected persons Workers	Being implemented
	Site-specific basis	At least one month before the start of construction at any new site	Anticipated risks-noise, dust, etc.	Affected persons	The public consultation of EIA and EMP was implemented
	Public workshops	At least once during peak construction period	EMP implementation progress; construction impacts; adjusting mitigation measures if necessary; feedback	Affected persons	Being implemented

59. In accordance with the EMP, any grievances which arise due to project activities will be managed through a grievance redress mechanism (GRM), as follows.

60. Stage 1 (5 calendar days): If a concern arises during construction or operation, the affected person may submit a written or oral complaint to the contractor. The contractor will: (i) respectfully acknowledge the issue and immediately stop the causal activity; (ii) not resume the activity until the complaint has been resolved; (iii) inform the Project Managers of IAs of the incident on the same day of the incident occurring;(iv) give a clear reply to the affected person within two calendar days; and (v) as far as possible, resolve the problem within five calendar days from receiving the complaint.

61. Stage 2 (5 calendar days): If the issue cannot be resolved in Stage 1, after five calendar days, the IAs and/or HPMP will take over responsibility. Eligibility of the complaint will be assessed, and a recommended solution given to the complainant and contractors within two calendar days. If the solution is agreed by the complainant, the contractors will implement the solution.

62. Stage 3 (15 calendar days): If no solution can be identified by the HPMP and/or IA, and/or the complainant is not satisfied with the proposed solution, the HPMP and/or HPMP will organize, within seven (7) calendar days, a stakeholder meeting. A solution acceptable to all shall be identified including clear steps. The contractors will immediately implement the agreed solution.

63. The HPMP will report to ADB on all complaints and solutions according to the grievance redress mechanism, and relevant documents will be included in the progress report.

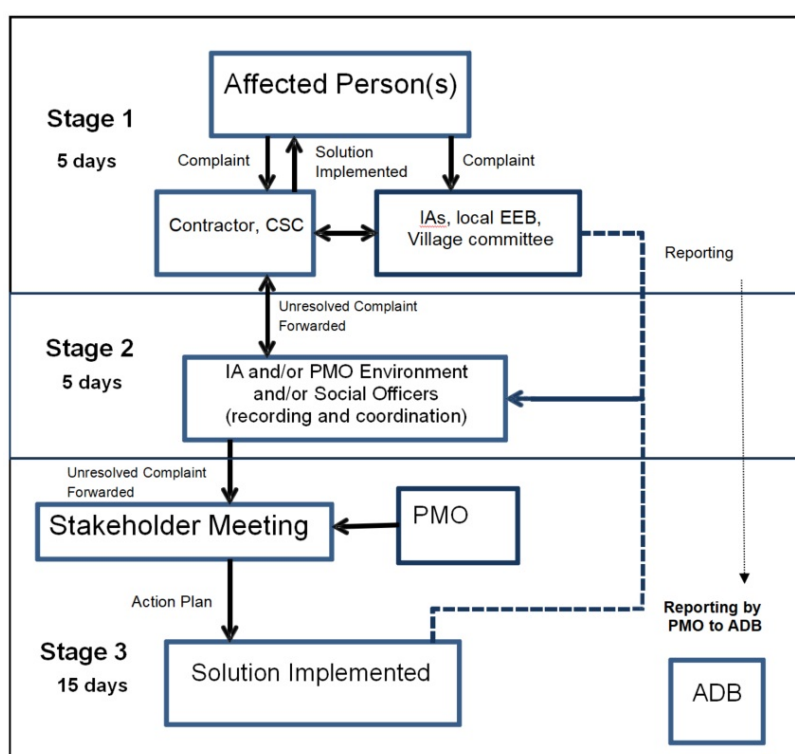


Figure 1: Operation Chart of the Grievance Redress Mechanism

ADB = Asian Development Bank, CSC = construction supervision company, EEB = ecology and environmental bureau, GRM = grievance redress mechanism, IA = implementing agency, HPMP = Huangshan Municipal project management office.

64. The grievance redress mechanism (GRM) of the project has been established as required during the reporting period, and the environmental and social officials of the Huangshan Project Office and the project office of the three districts and four counties will act as the main coordinator for the implementation of the grievance redress mechanism. Prior to construction, the contact information (telephone number, address and email address) of the corresponding environmental coordinator will be made public on the information board of the construction site and the website of the local ecological environment bureau.

65. During the reporting period, some of the sewage and stormwater sewer upgrade projects have been formally initiated, the project process is relatively smooth. Both of the public consultation and grievance redress mechanism in the process are implemented well. So far, no complaints have been received from stakeholders about the construction of sewerage system.

66. **Conclusions and next steps.** The public consultation and grievance redress mechanism have been conducted well at the site where construction has been started and no complaints or grievance have been received. Public consultation will be regularly organized by the county/district project office during the remaining implementation period. If there are any petitions and/or complaints, the relevant agencies will keep records.

F. Training and capacity building

67. Project implementing agencies in the three districts and four counties of Huangshan Municipality have no previous experience with ADB-funded projects and safeguard requirements. The experience of individual staff within the district and county EEBs for environmental management varies considerably.

68. Therefore, a capacity building program will be implemented on: (i) the EMP, including the mitigation measures, monitoring, and reporting; (ii) the grievance redress mechanism, including roles, responsibilities and procedures; (iii) procurement and contract management, focusing on EMP incorporation and implementation; (iv) operation and maintenance of the WWTS; and (v) measures for improved efficiency in the use of agricultural chemicals and water resources for agriculture.

69. Over the reporting period, ESD environmental experts conducted training on ADB environmental management for project offices, implementing agencies, HTIC and other relevant units at all levels. In the activities of ADB-KfW Virtual Loan Inception Mission, training on various contents of project management including environmental management were conducted, and environmental management requirements were explained in construction site management training. Table 5 describes the implementation of training and capacity-building during the reporting period. The environmental management training in December 2020 records and materials of environmental experts are in appendix 2.

Table 5: Training on environmental safeguards conducted during the reporting period

Training projects	Training content	Training time and venue	Participants and number	Training specialists	Outcomes
Project Management	Financial payments, environment & social security, green development fund investment training	2020, 11-20 November, ADB -KfW Virtual Loan Inception Mission	City, county and district project offices, implementation agencies, HTIC managers and consultants. (About 20 participants.)	ADB -KfW Virtual Loan Inception Mission	Basic understanding of relevant concepts achieved but further training required;
Environmental management	➤ Introduction to the Environmental Management Plan, updating and Implementation : Environmental	2020 December, Video conferencing	City & district/county project management office, Project Implementing agencies,	LIEC	Participants had a basic understanding of the implementation of environmental

Training projects	Training content	Training time and venue	Participants and number	Training specialists	Outcomes
	Management Plan Development and updating, roles and accountability, monitoring, monitoring and reporting procedures, summary of the experience; ➤ grievance redress mechanism: roles and responsibilities, procedures, lessons learned; ➤ Internal monitoring of the environment: internal monitoring methods, preparation of internal monitoring reports; ➤ External environmental monitoring: external monitoring methods, preparation of external monitoring reports; ➤ Supervision of construction and operation phases monitoring content: construction stage monitoring and operational phase monitoring.		HTIC. (Totally 22 participants.)		management plans, monitoring and reporting requirements and the concept and implementation of grievance redress mechanism.
Construction site management	Construction site management training for initiated projects	2020, 28-31 December	county and district project office, implementing agencies, design institute, construction supervision company, contractors. (About 30 participants.)		Promoted the effective implementation of the environmental management plan requirements

70. **Conclusions and next steps.** After the training, participants had a basic understanding of the implementation of environmental management plans, monitoring and reporting requirements and the concept and implementation of grievance redress mechanism. As the project progresses, other contracts with new contractors and supervision companies will be signed, so further environmental management training will be conducted in the next reporting period according to the progress of project implementation.

G. Actions in ADB Memorandum of Understanding

71. A mission¹ from the Asian Development Bank (ADB) and Kreditanstalt Fuer Wiederaufbau (KfW) conducted a loan inception mission for Anhui Huangshan Xin'an River Ecological Protection and Green Development Project from 11 to 20 November 2020 and form a memorandum of understanding. The memorandum records problems and follow-up actions identified by the supervisor. Table 6 summarizes the environmental issues raised in the loan inception mission, the corrective actions need to be taken and the current completion status of them.

Table 6: Implementation progress of environmental measures in the memorandum of understanding of Virtual Loan Inception Mission

Actions agreed	Responsible Unit	Completion Date	Completion status
Preparation of a COVID-19 risk assessment and safety procedures	PMO	25-Nov-20	Completed
Chinese version of the updated EMP available on the website of Huangshan PMO	PMO	30-Dec-20	Completed
Recruitment of an external environment monitoring agency	EA, PMO	30-Jan-21	Recruitment and signing of environmental monitoring technical services contract with external environmental monitoring company (Huangshan Angel Environmental Monitoring Co., Ltd.) was completed on 21 December 2020.
Submission of first semi-annual EMR	PMO, external monitor	30-Jan-21	Reference to this semi-annual environmental monitoring report

H. Reporting

72. Table 7 summarizes the project environmental safeguard reporting requirements and implementation status during the reporting period, including: i) progress reports submitted by construction supervision companies to implementing agencies;(ii) external monitoring reports submitted by environmental monitoring agencies to implementing agencies and HPMO; and (iii) environmental monitoring progress reports submitted by project offices to ADB.

¹ The ADB Mission comprised Mingyuan Fan, Mission Leader and Principal Water Resources Specialist, EAER; Li Ning, Environment Officer, Deputy Mission Leader, PRCM; Xiaoyan Qin, Senior Procurement Officer, PRCM; Margaret Clare Anosan, Project Officer, EAER; Omar Shariff B. Belisario, Project Analyst, EAER; ; Zhang Defa, ADB Staff Consultant for Environment; and Zhiyang He, ADB Staff Consultant for Social Development. Nogendra Sapkota, Senior Social Development Specialist, EAER and Mark Bezuijen, Principal Environment Specialist, EAER provided inputs to this MOU. KfW Mission comprised Tatjana Kulp, Mission Leader and Portfolio Manager, Daniel Skambracks, Environmental and Social Safeguards Specialist, Xianlong Pan, Technical Expert and Ping Li, Project Coordinator.

Table 7: Environmental reporting requirements and status of implementation during the reporting period

Report	From	To	Reporting frequency	Implementation status
Internal progress reports	Construction Supervision Company	Implementing agencies	Monthly	Completed
External monitoring reports	Environmental monitoring agency	Executive, Huangshan Project Office	Half a year	No external environmental monitoring has been carried out during this reporting period, the first monitoring will be reported in the next semi-annual environmental monitoring progress report.
Compliance monitoring and EMP progress reports	Huangshan Project Office/ Loan Implementation Environmental Specialist	ADB	Half a year	Refer to this semi-annual progress report on environmental monitoring

73. During the report period, there has been no construction of Green Investment Fund project carried out. After the project is officially carried out, Huangshan Trust Investment Company will submit the semi-annual environmental monitoring report in compliance with the requirements of the environmental management plan.

74. **Conclusions and next steps.** The reporting system for the environmental management plan is being implemented as required, and the next semi-annual report on environmental monitoring will report on the implementation for the period from 1 January 2021 to 30 June 2021.

III. ESTABLISHMENT AND IMPLEMENTATION PROGRESS OF ENVIRONMENTAL AND SOCIAL MANAGEMENT SYSTEM (ESMS)

A. Introduction of ESMS

75. The Green Investment Fund will encourage and support investment projects to promote agricultural innovation and the sustainable use of water, soil and energy. The project may have unintended impacts on surface water, groundwater, soil, air quality, noise levels, ecology, community, material and cultural resources and/or transfer of land tenure. The key objective of the ESMS is to identify, filter, and manage such risks.

76. ESMS environmental and social policy is: (i) protect environment and personnel may be affected by green investment fund projects in the project area, (ii) help HTIC, HMG and ultimate borrowers with the management of project environmental and social risk, (iii) by protecting water quality and ecological environment of Xin'an river basin, to support the project to promote the green development project targets.

B. The establishment and implementation of ESMS

77. As the green fund implementation agency, HTIC has appointed three qualified environment officers and three qualified social officers to lead the establishment of ESMS. The three environmental officers are Fan Xiangyang, Liu Xinyue, and Chen Junqi, in which two are environmental graduates.

78. A formal Presidential Directive by requirements in Project Agreement schedule para 30 has been issued to integrate the ESMS into HTIC business procedures for daily implementation of the ESMS procedures for the safeguard screening, categorization, and management of approved equity investments. The directive has been submitted to the Huangshan city government and the ADB for review.

79. The ESMS is written in a non-technical language and has been simplified and tailored to the HTIC's ability to implement ESMS. It provides step-by-step procedures to assess and manage the potential environmental and social impacts associated with subprime loan applications under the Green Fund. At present, the updated ESMS has been posted on the website of the Project Office, and the eligible investors to be selected will perform activities in accordance with ESMS requirements.

80. During the reporting period, HXIC, under the supervision of HTIC, has carried out the selection of the first batch of investment project including 2 projects. The rapid environmental assessment is being carried out for the first investment project (Yi County Younong Eco-Agriculture Co., Ltd.). It is expected to submit the application document to ADB in January 2021.

C. Actions in ADB Memorandum of Understanding

81. A mission from the Asian Development Bank (ADB) and Kreditanstalt fuer Wiederaufbau (KfW) conducted a loan inception mission for Anhui Huangshan Xin'an River Ecological Protection and Green Development Project from 11 to 20 November 2020 and form a memorandum of understanding. The memorandum records problems and follow-up actions identified by the supervisor. Table 8 summarizes the ESMS related issues raised in

the loan inception mission, the corrective actions need to be taken and the current completion status of them.

Table 8: Implementation progress of ESMS related measures in the memorandum of understanding of Virtual Loan Inception Mission

Actions agreed	Responsible Unit	Completion Date	Completion status
Chinese version of the updated ESMS available on the website of Huangshan PMO	PMO	30-Dec-20	Completed

IV. COMPLIANCE WITH LOAN AND PROJECT ASSURANCES

82. Loan agreements and project agreements between the government and ADB include 25 environmental safeguards and/or guarantees related to environmental issues (or "terms "). This involves the timely and effective implementation of environmental management plans and specific project guarantees for current projects. Compliance with these terms is a condition of the loan and project agreement. The environmental safety and security provisions during the reporting period (including the environment, safeguards provisions, pre-construction preparation, safeguard and monitoring reports and grievance redress mechanism) and their implementation progress are described in Table 9.

Table 9 Compliance with environmental assurances

Para No.	Description	Remarks / Issues	Type
10-11	10. HMG shall, and shall cause the IAs to, ensure that the preparation, design, construction, implementation, operation and decommissioning of the Project and all Project facilities comply with (a) all applicable laws and regulations of the Borrower relating to environment, health and safety; (b) the Environmental Safeguards; and (c) all measures and requirements set forth in the IEE, the EMP, and any corrective or preventative actions (i) set forth in a Safeguards Monitoring Report, or (ii) subsequently agreed between ADB and HMG. 11. HMG shall, and shall cause the IAs to, ensure that agricultural chemicals listed as hazardous under Classes I or II by the World Health Organization or listed as prohibited or strictly controlled use under the Borrower's national regulations for pesticide management are not be used within the Project area.	In Compliance	Safeguards
15	15. HMG shall, and shall cause the IAs to, make available necessary budgetary and human resources to fully implement the EMP and the RPs.	In Compliance	Safeguards
16	16. HMG shall ensure that all bidding documents and contracts for Works entered into by HMG contain provisions that require contractors to: (a) comply with the measures and requirements relevant to the contractor set forth in the IEE, EMP, the related RP (to the extent they concern impacts on the respective affected people under the Environmental Safeguards and the Involuntary Resettlement Safeguards during construction) and any corrective or preventative actions set forth in (i) a Safeguards Monitoring Report, or (ii) subsequently agreed between ADB and HMG; (b) make available a budget for all such environmental and social measures; (c) provide HMG with a written notice of any unanticipated environmental, resettlement or indigenous peoples/ethnic minorities risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP, and the RPs; (d) adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and (e) fully reinstate pathways, other local infrastructure,	In Compliance	Safeguards

Para No.	Description	Remarks / Issues	Type
	and agricultural land to at least their pre-project condition as early as possible but no later than the completion of construction.		
19	<p>19. HMG shall do the following:</p> <p>(a) submit semiannual Safeguards Monitoring Reports to ADB until the issuance of ADB's Project completion report, unless a longer period is agreed in the EMP, and disclose relevant information from such reports to the respective affected people under the Environmental Safeguards promptly upon submission;</p> <p>(b) if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEE, the EMP, or the RP, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and</p> <p>(c) report any actual or potential breach of compliance with the measures and requirements set forth in the EMP or the RP promptly after becoming aware of the breach.</p>	In Compliance	Safeguards
20	20. HMG shall ensure that a safeguards grievance redress mechanism acceptable to ADB is established and maintained in accordance with the provisions of the IEE, the EMP, the RP and the PAM, to consider safeguards complaints	In Compliance	Safeguards
30-44	<p>30. At least 3 months prior to establishing GIF, HMG shall cause HTIC to issue a formal Presidential Directive to integrate the ESMS into HTIC business procedures relevant to the GIF and deliver it to ADB. The Presidential Directive shall: (a) officially recognize the ESMS as HTIC policy from the date of the Presidential Directive; (b) instruct the subproject proposal reviewers of GIF that the ESMS steps are now part of investment proposal assessment and approval procedures; (c) identify by name and position the managerial and review arrangements for steps and decisions taken while implementing the ESMS; (d) confirm that breaches of environmental and social conditions by the Qualified Investee will be treated by HTIC in the same way as breaches in other investment conditions, including imposition of similar remedies; (e) confirm the working relationship between HTIC and its Qualified Subproject implementation supervision consultants; (f) ensure the wide dissemination within HTIC of Chinese-language ESMS documents; (instruct that copies of the ESMS Workbook [Appendix 3] are used in the field and filled out as part of the Qualified Subproject implementation); and (g) commit to the training plan in the ESMS by facilitating HTIC officers' attendance at training courses as required.</p> <p>32. HMG shall cause HTIC to ensure that HXIC and GIF appoint one qualified environment staff and one qualified social staff for coordination and implementation of the ESMS for GIF, at least 3 months before the signing of the first Equity Investment Agreement.</p>	<p>In Compliance</p> <p>In Compliance.</p>	<p>Safeguards</p> <p>Safeguards</p>

Para No.	Description	Remarks / Issues	Type
	33. HMG shall cause HTIC to ensure that HXIC and GIF require all the Qualified Investees to comply with the ESMS.	In Compliance	Safeguards
	34. HMG shall cause HTIC to ensure through HXIC that (a) all Qualified Subprojects to be financed under GIF are screened as per the procedures set out in the ESMS and (b) as part of the ESMS, HTIC shall cause HXIC and GIF to submit to ADB for prior review and approval the proposed safeguards screening documents and proposed safeguard classification, together with the project description and the draft IEEs for all Qualified Subprojects that have environmental safeguards category B under the ESMS for the first two Qualified Subprojects from each type of project category (e.g. agro-forestry, ecotourism), as set out in PAM. If such proposed safeguards classification and the project description and documentation are satisfactory to ADB, any subsequent Qualified Subproject shall only be subject to post review in the annual ESMS performance report required to be submitted to ADB as described in the ESMS. Further, HMG shall, through HTIC, ensure that before any Qualified Subproject is approved, an IEE and RP, as applicable, are prepared for such Qualified Subproject, as required pursuant to ESMS.	In Compliance	Safeguards
	35. HMG shall cause HTIC, through HXIC and GIF, to ensure that (a) Qualified Investee prepare, design, construct, implement, operate and decommission the Qualified Subproject in accordance with (i) all applicable laws and regulations of the Borrower relating to environment, health and safety; (ii) the ESMS; (iii) all measures and requirements set forth in an IEE, where such measures are required for a Qualified Subproject with environmental safeguards category B under the ESMS; and (iv) any corrective or preventative actions set forth in a Safeguards Monitoring Report; (b) the institutional arrangements for effective implementation of environmental and social safeguards as described in the ESMS are in place before commencement of any Works under the Qualified Subproject; and (c) any adverse impact on the environment that may arise from Qualified Subproject implementation activities is promptly mitigated or minimized and reported to ADB in accordance with the ESMS.	In Compliance	Safeguards
	39. HMG shall and shall cause HTIC to ensure that (a) necessary budgetary and human resources are made available to fully implement the ESMS; and (b) each Qualified Investee under the Qualified Subproject makes necessary budget and human resources to fully implement the respective EMP and RP, as applicable.	In Compliance	Safeguards

Para No.	Description	Remarks / Issues	Type
	40. HMG shall cause HTIC, through HXIC and GIF, to ensure that throughout the duration of the Qualified Subproject, so long as any Equity Investment is remaining in the Qualified Investee (a) any changes to the design of the Qualified Subproject that may potentially cause negative environmental impacts shall be screened and assessed, and (b) environmental monitoring and mitigation measures shall be revised pursuant to procedures as set out in the ESMS.	In Compliance	Safeguards
	42. HMG shall cause HTIC, through HXIC and GIF, to submit semiannual progress reports on the implementation of the ESMS. HMG and HTIC shall review the effectiveness of its ESMS implementation after 12 months of Project implementation, and make any necessary changes as required by ADB and HMG following such review.	In Compliance	Safeguards
	43. HMG shall cause HTIC, through HXIC and GIF, to ensure that measures to avoid, reduce and/or mitigate environmental and/or social impacts, as applicable, in each Qualified Subproject are included in the Equity Investment Agreement with respective Qualified Investee or in a separate written undertaking from the Qualified Investee that gives HTIC the right to exercise any remedies for failure to comply with any such measures by the Qualified Investee.	In Compliance	Safeguards
	44. HMG shall cause HTIC, through HXIC and GIF, to ensure that all personnel with responsibility for approving Qualified Subprojects and Qualified Investees complete all training provided by the Project for implementation of the ESMS.	In Compliance	Safeguards

V. LESSONS LEARNED

72. During the reporting period, the main lessons learned from environmental management includes: Project agencies in the three districts and four counties in Huangshan Municipality have no previous experience with ADB-funded projects and safeguard requirements, resulting in a lack of comprehensive understanding of ADB project implementation requirements. In order to strengthen the ADB loan project management capacity of the project office, implementing agency and contractors, the project implementation consultant will conduct centralized training as planned and provide training in the process of project implementation, and maintain regular communication among project stakeholders.

APPENDIX 1. EXTERNAL MONITORING CONTRACT COVER AND QUALIFICATION CERTIFICATE

- contract cover (Date on December 2, 2020)

合同编号:

环境检测 技术服务合同书

项目名称: 黄山市 2021 年环境检测项目
委托单位(甲方): 上海伊世特科技管理有限公司 (ESD China Ltd.)
受托单位(乙方): 黄山安琪尔环境检测有限公司

合同签订日期: 2020 年 12 月 21 日

■ Qualification certification of monitoring agency



APPENDIX 2. ENVIRONMENTAL MANAGEMENT TRAINING RECORDS AND MATERIALS

■ Environmental management training records

腾讯会议

成员(14人)

搜索成员

(主持人)

张德发

82 150****8682

行办 黄山区亚行办

林业局

行办 祁门亚行办

行办 市亚行办

行办 屯溪区亚行办

行办 歙县亚行办

行办 黟县亚行办

26 189****3026

公司 黄山信保投资控股集团有限公司

行办 休宁县亚行办

解除静音

张德发的屏幕共享

黄山项目环保信息表.xlsx - Microsoft Excel

	A	B	C	D
			XX年XX月,对XX家施工单位和监理公司进行了培训,参加人员共XX人,其中女性XX人。	
6			在任何施工之前至少两个月,对所有环境人员进行环境管理计划实施培训。	2020年12月2日,环境咨询专家为项目所有环境管理培训。参加人数共XX人,其中女性XX人。见附图-1,环境管理在线培训截图。
7			在进行任何施工之前至少两个月,确认至少已为该项目招募了一名合格的环境监测机构。	2020年12月,招聘了XX环境监测公司,该公司具有。见附图-监测公司资质复印件;服务范围包括所需要的所有监测;见附图——监测公司服务范
8			聘请承包商和施工监理公司后,对项目EMP进行培训。	XX年XX月,对XX家施工单位和监理公司进行了培训,参加人员共XX人,其中女性XX人。
9		更新EMP	根据最终的详细设计更新此EMP中定义的缓解措施。这将包括在详细设计过程中准备的使用生物农药的具体设计(请参阅IEEV D.6节和X节)。	详细设计中,生物农药的具体设计包括: 1. 2. 3.
10			石棉。根据亚行的《禁止投资活动清单》(SPS, 2009),石棉的使用被禁止,除非购买和使用石棉含量<20%的粘结石棉水泥板”(SPS2009:76)。但是:(1)在实践中,很难评估石棉含量是否小于20%;(2)国际发展银行越来越禁止在其项目中使用所有石棉。为确保该项目在人类健康和安全方面的国际最佳实践:该项目支持的任何材料均不得使用任何种类的石棉。	项目办已于XX年XX月将此环境管理计划转发XX设计并正式设计人员在项目设计中不得使用任何种类
11			请与设计院和黄山市项目办核对,以确保所议定的材料不包括石棉的使用。	项目办和环境咨询专家已于2020年12月审查了项目设计,其中所议定的材料不包括石棉的使用。
12			将更新后的环境管理计划提交亚行审查;	项目办已于XX年XX月更新了环境管理计划并提交

进度1 进度 措施落实 内监 外监 环保投资 公参 培训 申诉1 申诉 报告

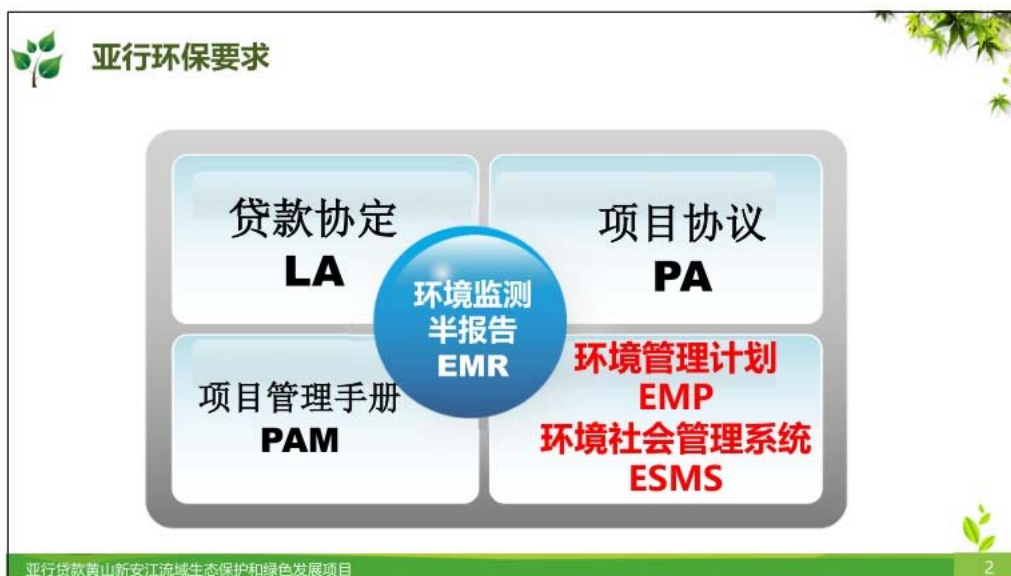
五笔拼音

10:26 2020-12-02

线上培训屏幕截图

■ Environmental management training materials

2021-2-2



APPENDIX 3. PUBLIC CONSULTATION IMPLEMENTATION

Public consultation of EIA.

2021/2/8 亚行贷款黄山新安江流域生态保护和绿色发展项目环境影响评价公众参与公示_招标投标信息查询 - 天

天眼查 国家中小企业发展子基金旗下 官方备案企业征信机构 查公司 查老板 查关系 请输入公司名称、老板姓名、品牌名称等 天眼一下

亚行贷款黄山新安江流域生态保护和绿色发展项目环境影响评价公众参与公示

2019-02-20 中国比地招标网 中国比地招标网

关联公司 中南安全环境技术研究院股份有限公司

亚行贷款黄山新安江流域生态保护和绿色发展项目环境影响评价公众参与公示

根据《中华人民共和国环境影响评价法》等规定和生态环境部2018年7月16日发布《环境影响评价公众参与办法》的要求，对亚行贷款黄山新安江流域生态保护和绿色发展项目有关信息公开如下：

一、建设项目的名称及概要

项目名称：亚行贷款黄山新安江流域生态保护和绿色发展项目

项目选址：项目拟选址位于安徽省黄山市，共涉及四县三区：祁门县、黟县、歙县、休宁县、徽州区、黄山区、屯溪区

建设内容：亚行贷款黄山新安江流域生态保护和绿色发展项目建设内容包括四大类：通过点源污染管理提升流域水质、非点源污染管理提升流域水质、绿色产业发展、加强生态系统和项目管理能力。

二、承办单位的名称和联系方式

单位名称：黄山市亚行贷款项目办公室

单位地址：安徽省黄山市市政府大楼

联系人：殷工

联系电话：0559-2355872

传 真：0559-2355370

电子信箱：hsshxmb@126.com

信函地址：黄山市市政府大楼四楼亚行贷款项目办公室

三、环境影响评价机构的名称和联系方式

<https://www.tianyancha.com/bid/7cd81479b1ba11e985737cd30aeb144c>

Anhui Huangshan Xin' an River Ecological Protection and Green Development Project
Semi-Annual Environmental Monitoring Report (No. 1)

2021/2/8

亚行贷款黄山新安江流域生态保护和绿色发展项目环境影响评价公众参与公示_招标投标信息查询 - 天



国家中小企业发展子基金旗下
官方备案企业征信机构

查公司 查老板 查关系

请输入公司名称、老板姓名、品牌名称等

天眼一下

联系人：陈工

联系电话：15395122142

电子信箱：1217429853@qq.com

四、公众意见表的网络连接

附件下载：公众意见表

五、提交公众意见表的方式和途径

公众可以通过信函、传真、电子邮件的方式将填写的公众意见表等提交建设单位，反映与建设项目环境影响有关的意见和建议。

在环境影响报告书征求意见稿编制过程中，公众均可向建设单位提出与环境影响评价相关的意见。

附件：[建设项目环境影响评价公众意见表](#)

黄山市亚行贷款项目办公室

附件：[公众意见表.docx](#)【13.76 KB】

https://www.tianyancha.com/bid/7cd81479b1ba11e985737cd30aeb144c

- Updated EMP available on the website of Huangshan PMO.

亚行贷款黄山新安江流域生态保护和绿色发展项目环境管理计划公示_黄山... Page 1 of 1

亚行贷款黄山新安江流域生态保护和绿色发展项目环境管理计划公示

发布日期: 2021-02-05 10:24 信息来源: 市发展改革委 责任编辑: 各科室 浏览量: 46 【字体: 大 中 小】

按照行要求,现将亚行贷款黄山新安江流域生态保护和绿色发展项目环境管理计划公示如下:

一、简介

1.此环境管理计划是为亚行贷款黄山新安江流域生态保护和绿色发展项目(本项目)建立的。此计划概述了项目潜在的环境影响并详细说明了减缓措施以及如何避免、减少和/或减缓负面影响和风险。环境管理计划内可研报告、国内环评报告、初始环境审查报告(IEE)、技术专家报告和行检查会讨论,以及与相关政府部门达成一致的基础上编制的。

2.本环境管理计划中提出了(1)实施减缓措施的具体行动;(2)监测和报告程序;(3)机构和组织安排;(4)能力建设培训;(5)项目实施时间安排表;(6)成本估算。环境管理计划将作为项目管的一部分,并自将作为所有后续文件的附件。同时,需要告知施工方,他们需要执行该环境管理计划,并需要在其标书中列出这部分的执行费用,并根据此环境管理计划编制施工区域的环境管理计划。

二、联系方式

黄山市亚行办 陈工 联系电话: 0592355872 邮箱地址: hszhemb@126.com

三、查阅方式

见附件。

 亚行贷款黄山新安江流域生态保护和绿色发展项目环境管理计划.pdf



扫一扫用手机打开网页

打印本页

上一篇: 关于征求市发展改革委领导班子2020年度民主生活会征求意见的建议函

下一篇: 2020年市促进服务业高质量发展专家委员会支持事项公示

<http://fgw.huangshan.gov.cn/tzgg/8879220.html>

2021-02-08

- Public consultation on construction site information board.



APPENDIX 4. HTIC NOTICE ON ISSUING ENVIRONMENTAL AND SOCIAL
MANAGEMENT SYSTEM, SEPTEMBER 21, 2020

黄山信保投资控股集团有限公司文件

黄信投字（2020）33 号

关于印发《环境与社会管理体系（ESMS）》的 通知

集团各部门、各子公司：

为进一步提升亚行绿色投资基金工作的科学性、严谨性，不断对全体员工进行环境保护教育和社会责任感教育，提高环境与社会管理方面的专业性。现将《环境与社会管理体系（ESMS）》印发给你们，请全体员工认真学习领会，在工作全流程中自觉践行，不断提升投资工作水平与内涵。

- 附件：1. 环境与社会管理体系（ESMS）
2. 亚行项目环境专员与社会专员名单

黄山信保投资控股集团有限公司

2020 年 9 月 21 日



APPENDIX 5 PICTURES OF THE CONSTRUCTION SITE OF THE PROJECT STARTED

	
<p>Works-TX-1 Sewer pipe installed and road surface restored after construction</p>	<p>Works-TX-1 Septic tanks installed in Zifu village</p>
	
<p>Works-TX-1 Sewer pipe installed and road surface restored after construction</p>	<p>Works-TX-1 Sewer pipe installed and road surface restored after construction in Zifu village</p>
	
<p>Works-TX-3 Excavation started for sewer pipe installation in Tunxi</p>	<p>Works-TX-3 Xucun village - a view of proposed sewer installation site, Tunxi</p>