

Environmental Assessment and Review Framework

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Afghanistan: Energy Supply Improvement Investment Program (Tranche 7)

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CURRENCY EQUIVALENTS

(as of September 2020)

Currency unit – Afghani (AF)

AF1.00 = \$0.0136

\$1.00 = AF76.84

ABBREVIATIONS

ADB	–	Asian Development Bank
SC	–	Supervision Consultant
DABS	–	DA Afghanistan Breshna Sherkat
EA	–	Environmental Assessment
EARF	–	Environmental Assessment and Review Framework
EIA	–	Environmental Impact Assessment
EMP	–	Environmental Management Plan
GFP	–	Grievance Focal Point
IEE	–	Initial Environmental Examination
MEW	–	Ministry of Energy and Water
MFF	–	Multi-tranche Financing Facility
NGO	–	Non-government Organization
PMU	–	Project Management Unit
RoW	–	Right of Way
SPS	–	Safeguard Policy Statement
WHC	–	World Heritage Convention
EA	–	Executing Agency

NOTES

- (i) “\$” refers to United States dollars.

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I. INTRODUCTION

1. The Afghan electrification rate is estimated to be 30%, with an average annual household electricity consumption of 1,878 kilowatt-hours.¹ Increasing access to electricity is a key priority of the government under its National Energy Supply Program.² In 2019, DABS served an estimated noncoincident peak demand of about 1040 MW across its isolated power transmission and distribution networks. There was widespread load shedding because demand exceeded supply. The unconstrained peak demand of 2019 was estimated to be 1,444 MW.³ The Power Sector Master Plan 2013 forecasts that the aggregate peak demand of Afghanistan will increase to 3,500 MW by 2032, reflecting an average annual growth rate of 9.8% (footnote 2). Electricity sales are expected to increase to 15,909 gigawatt-hours (GWh) by 2032.

2. Currently 20 out of 34 provinces in Afghanistan are not connected to the national grid causing cost of doing business to increase, environment to deteriorate, and sustainable development indicators to subdue. This in turn constrains growth opportunities; creates disparities in the country's economic development; and fuels ethnic and regional tensions, insecurity, and discontent.

3. The proposed project will extend and strengthen the national grid into Shindand and Farah Districts in the provinces of Herat and Farah in western Afghanistan, which have a population of nearly 1 million, and will allow transmission of planned renewable energy-based generation. The project will construct (i) a 135 km 220 kV double circuit transmission line from the proposed Pul-e-Hashemi Substation in Herat Province to the proposed Shindand substation, (ii) a 176 km 220 kV double circuit transmission line from the proposed Shindand substation to the Farah substation (iii) upgrade of the existing 220/20 kV Pul-e-Hashemi substation by adding two line bays and construction of the new 220/20 kV Sindand substation and Farah substation; and (iv) construction of new 20 kV/400 V distribution networks in Shindand District and Farah District.

4. The Pul-e-Hashemi substation in Herat province, which will be upgraded by constructing two 220kV incoming line bays under the proposed Tranche, is considered as an associated facility to this project.

5. The Environmental Assessment and Review Framework (EARF) is proposed below in order to adequately screen, assess, review, and monitor the environmental impacts of candidate subprojects. It includes assessment of legal framework and institutional capacity, anticipated environmental impacts, environmental assessment for subprojects and components, consultation, information disclosure, and grievance redress, institutional responsibilities of various agencies, and monitoring and reporting.

¹ ADB. 2013. [Islamic Republic of Afghanistan: Power Sector Master Plan](#). Consultant's report. Manila (TA 7637-AFG).

² The Afghan National Energy Supply Program aims to (i) increase the electrification rate from 30% in 2014 to 83% in 2030, (ii) increase domestic generation from 20% in 2014 to 67% in 2030, and (iii) strengthen power exchange and trade options by 2030.

³ DABS. 2019. Forecast Sales and Generation (2020–2032). 23 July.

II. ASSESSMENT OF LEGAL FRAMEWORK AND INSTITUTIONAL CAPACITY

6. The environmental assessment of the subprojects under various tranches of the MFF Investment Program will be screened, classified, and assessed based on ADB's Safeguard Policy Statement (2009), and environmental legislation of the Islamic Republic of Afghanistan, and, if necessary, be reviewed and approved by ADB and the National Environmental Protection Agency (NEPA). This also includes complying with international agreements which Afghanistan is party to.

A. Environmental Legislation of Afghanistan

7. The following national environmental acts, laws, regulations, guidelines and policies are relevant to the project:

- *Environmental Act, 2007*. This act has been promulgated to give effect to Article 15 of the Constitution of Afghanistan and provide for the management of issues relating to rehabilitation of the environment and the conservation and sustainable use of natural resources, living organisms and non-living organisms.
- *Minerals Law, 2010*. The Minerals Law of 2010 governs the ownership, control, prospecting, exploration, exploitation, extraction, marketing, sale, and export of minerals in the territory of Afghanistan. The law provides that all deposits of minerals on or under Afghanistan or in its water courses are the exclusive property of the state. A surface land interest does not include right to minerals. The Ministry of Mines is authorized to grant mineral rights in accordance with the provisions of the law.
- *Water Law, 2009*. Afghanistan's new Water Law became effective in April 2009 and is one component of the country's strategy to integrate its water systems and institutions. The Water Law adopted a river basin approach under which natural river basin boundaries (versus administrative boundaries) govern all aspects of natural resources management and planning. Customary law tends to govern the use of water on private land and in private systems, the resolution of conflicts over water, and water resource conservation. Customary law generally governs allocation of water through the kaarez system, which is constructed and maintained on a community basis.
- *Law on Managing Land Affairs, 2008*. The Law on Managing Land Affairs sets out definitions for various land types and classifications, requirements for land deeds, and principles governing allocations of state land, land leasing, land expropriation, settlement of land rights, and restoration of lands.
- *Draft Rangeland Management Law, 2009*. The Rangeland Law is currently under development. Its purpose is to create a framework for community custodianship and management of rangeland resources to provide for sustainable use and management of the rangeland resources, to maximize productivity of rangeland resources and to maintain ecological functions and evolutionary processes of Afghan rangelands, conserve soil and water resources, maintain biological diversity, and combat desertification.
- *Draft Forest Law, 2009*. The Draft Forest Law reflects the principles of community based natural resource management enshrined in the Cabinet-endorsed National Strategy for Forests and Rangeland.
- *Interim Environmental Impact Assessment Regulations, Draft 2.3*. These regulations govern the process of environmental impact assessment in Afghanistan on an interim basis pending the establishment of the EIA Board of Expert in terms of Article 20 of the Environmental Law and issuing of final regulations. These regulations provide the detailed

- process of EIA and list the projects into category A and B based on potential impacts.
- *Administrative Guidelines for the Preparation of Environmental Impact Assessments, June 2008*. These guidelines have been prepared as a companion to the Environmental Impact Assessment Regulations (Official Gazette No. 939, dated 10 March 2008). The guidelines are provided to assist those undertaking development projects that may have a potential impact on the environment, and will guide proponents on the various aspects of dealing with the National Environmental Protection Agency as the competent environmental authority in Afghanistan. It will also provide guidance on how the public should be consulted and the roles and responsibilities of the various stakeholders in the process.
- Environmental Impact Assessment Policy –“An Integrated Approach to Environmental Impact Assessment in Afghanistan”, November 2007. NEPA with the assistance from UNEP has developed the EIA Policy of Afghanistan. The policy stipulates energy sector guidelines to the project proponents to integrate EIA in the process of development and the procedures to address environmental consequences and involve necessary institutions in the process of project implementation.
- *National Environment Strategic Documents*. These include (i) The Millennium Development Goals: Vision 2020; (ii) The Afghanistan Compact; (iii) The Afghanistan National Development Strategy (ANDS 2008-2013), and (iv) The National Environment Strategy.

B. ADB Safeguard Policy Statement (2009) Requirement

8. The SPS 2009 consists of three operational policies on environment, indigenous peoples, and involuntary resettlement. This policy provides the scope, triggers, and principles to avoid, minimize, or mitigate adverse environmental and social impacts, including protecting the rights of those likely to be affected marginalized by the development process.

9. The environmental requirements of SPS 2009 aim to ensure project environmental soundness and sustainability, integrate environmental considerations into the project decision-making process. The principal objective is to conduct an environmental assessment for each proposed project to identify potential impacts, and then mitigate the negative impacts. The proposed mitigation measures, monitoring and reporting requirements, institutional arrangements, schedules, cost estimates, and performance indicators are documented in the environmental assessment report. The ADB requires environmental assessment of all project loans, program loans, sector loans, sector development program loans, financial intermediation loans, and private sector investment operations. Environmental assessment is a process rather than a one-time report, and includes necessary environmental analyses and environmental management planning that take place throughout the project cycle.

10. ADB’s Safeguard Policy Principles are summarized in a table below:

	Policy Principle	Summary
1	Screening and categorization	Initiate screening process early to determine the appropriate extent and type of environmental assessment.

	Policy Principle	Summary
2	Environmental assessment	Conduct an environmental assessment to identify potential impacts and risks in the context of the project's area of influence.
3	Alternatives	Examine alternatives to the project's location, design, technology, and components and their potential environmental and social impacts, including no project alternative.
4	Impact mitigation	Avoid, and where avoidance is not possible, minimize, mitigate, and/or offset adverse impacts and enhance positive impacts. Prepare an environmental management plan (EMP).
5	Public consultations	Carry out meaningful consultation with affected people and facilitate their informed participation. Involve stakeholders early in the project preparation process and ensure that their views and concerns are made known to and understood by decision makers and taken into account. Continue consultations with stakeholders throughout project implementation. Establish a grievance redress mechanism.
6	Disclosure of environmental assessment	Disclose a draft environmental assessment in a timely manner, in an accessible place and in a form and language(s) understandable to stakeholders. Disclose the final environmental assessment to stakeholders.
7	Environmental management plan	Implement the EMP and monitor its effectiveness. Document monitoring results, and disclose monitoring reports.
8	Biodiversity	Do not implement project activities in areas of critical habitats.
9	Pollution prevention	Apply pollution prevention and control technologies and practices consistent with international good practices. Adopt cleaner production processes and good energy efficiency practices. Avoid pollution, or, when avoidance is not possible, minimize or control the intensity or load of pollutant emissions and discharges. Avoid the use of hazardous materials subject to international bans or phase outs.
10	Occupational health and safety Community safety.	Provide workers with safe and healthy working conditions and prevent accidents, injuries, and disease. Establish preventive and emergency preparedness and response measures to avoid, and where avoidance is not possible, to minimize, adverse impacts and risks to the health and safety of local communities
11	Physical cultural resources	Conserve physical cultural resources and avoid destroying or damaging them. Provide for the use of "chance find" procedures.

11. ADB's Public Communication Policy (2011) aims to enhance stakeholders' trust in and ability to engage with ADB, and thereby increase the development impact of ADB operations. The policy promotes transparency, accountability, and participatory development. It establishes the disclosure requirements for documents ADB produces or requires to be produced.

12. ADB's Accountability Mechanism Policy's (2012) objectives is to provide an independent and effective forum for people adversely affected by ADB-assisted projects to voice their concerns and seek solutions to their problems, and to request compliance review of the alleged noncompliance by ADB with its operational policies and procedures that may have caused, or is likely to cause, them direct and material harm. The Accountability Mechanism a "last resort" mechanism.

III. DESCRIPTION OF THE PROGRAM

13. The investment programs subproject's under each tranche and their costs are summarized in Table 1.

Table 1: Tranches of the Investment Program

Tranche	Project's description	Estimated Cost (\$ million)
T1	500-kV transmission line (306 kilometers) between Sheberghan and Dashte Alwan	275
	220-kV transmission line (66 kilometers) between Sheberghan and Andkhoy	
T2	300-MW High Voltage Direct Current Back to Back Convertor Station at Dashte Alwan	415
	220-kV transmission line (150 kilometers) between Charikar and Bamyan including 16 MVA 220/20-kV substation and power distribution network for 10,000 connections	
T3	20-MW Surobi Solar Power project (Surobi District, Kabul Province)	44.76 (cancelled in 2019)
T4	190 kilometer 220-kilovolt (kV) transmission line between capital city Kabul and Nangrahar provincial capital Jalalabad	60
T5	220-kilovolt (kV) transmission line (100 km) Jalalabad – Asadabad including a 220/2-/kV substation (2 x 40 megavolt amperes) in Asadabad;	143.42
	220 kV transmission line (70 kms) Ghazni – Sharana including a 220/2- /kV substation (2 x 16 megavolt amperes) in Sharana	
T6	500kV single circuit transmission line from Uzbekistan-Afghanistan border river crossing (i.e. Amu-Darya River) near Kharayraton bridge to Khwaja Alwan substation (Pul-e-Khumri)	110
	Expansion of a one line-bay at Dashte Alwan substation.	
T7	220 kV double circuit transmission line (135 km) from the Pul-e-Hashemi Substation in Herat Province to the proposed Shindand substation	154.4
	Upgrade of the 220/20 kV Pul-e-Hashemi substation by adding two-line bays	
	220/20 kV substation (2 x 16 megavolt-amperes) in Shindand (Herat Province)	
	20 kV/400 V distribution network in Shindand district	
	220 kV double circuit transmission line (176 km) from the proposed Shindand substation to the proposed Farah substation	
	220/20 kV substation (2 x 40 megavolt-amperes) in Farah (Farah Province)	
20 kV/400 V distribution networks in Farah district		

IV. ANTICIPATED ENVIRONMENTAL IMPACTS

14. It is anticipated that the Investment Program will have environmental impacts characteristic of construction of transmission lines and substations, distribution networks, solar plants, and natural gas extraction. The magnitude of those impacts will vary depending on sensitivity of the environment including ecological environment or availability of archeological or historical sites in project area. The potential environmental impacts can include:

- **Physical Environment.** Potential impacts to area topography are likely to occur in the construction stage due to the possibilities of cut and fill. Earth-moving operations can cause soil erosion. Potential air quality impacts of the subprojects during the construction phase can be anticipated due to fugitive dust generation in and around construction activities and related activities such as plants for crushing rocks, hot-mix and asphalt plants. Water extraction for construction purposes and camps can affect the availability of water for domestic or agricultural use. Fuel and lubricants construction machinery can contaminate groundwater and surface water if they are not properly stored and disposed. Potential impacts are also related to wastewater from construction camps. Noise and vibration impacts, generated by construction activities can affect noise-sensitive receptors such as hospitals, schools in settlements and wildlife in specially protected areas. The projects can be subject to natural disasters such as earthquakes, landslides, rockfalls, and flooding;
- **Biological Resources.** Potential impacts related to biological resources include a risk of habitat fragmentation and loss, improved accessibility and increase in poaching, physical disturbance of wildlife, removal of vegetation in the OHL RoW. The OHL under subprojects can run in vicinity of existing or proposed protected areas;
- **Socioeconomic Environment.** Potential impacts to the social environment can include both adverse impacts such as resettlement, transmission of diseases, and positive impacts on income and unemployment trends. The subprojects can impact existing infrastructure. Potential impacts on archaeological, historical and cultural assets located within RoW can occur due to construction activities, and there is also a possibility of a chance-find

V. ENVIRONMENTAL ASSESSMENT FOR SUBPROJECTS AND/OR COMPONENTS

15. The following general criteria will be adopted for selection of the subprojects for the investment program:

- (i) The subprojects shall only be selected from DABS priority list.
- (ii) The subprojects shall only involve activities that follow all the government regulations.
- (iii) Subprojects including activities listed in ADB's Prohibited Investment Activities List do not qualify for ADB's financing.
- (iv) The subprojects that can have considerable adverse impacts on the environment (Category A) or located in environmentally sensitive areas are subject to mandatory environmental assessment as detailed below.

16. A final check on conformity with the selection criteria will be the submission of selected subprojects for ADB's clearance. Any subproject, which does not meet the general criteria listed above may be rejected.

17. All subprojects will be subject to environmental assessment process (Initial Environmental Examination (IEE) or Environmental Impact Assessment (EIA)). Depending on the significance of project impacts and risks, the assessment may comprise a full-scale environmental impact assessment (EIA) for category A projects, an initial environmental examination (IEE) or equivalent process for category B projects, or a desk review.

A. Requirements to Environmental Screening and Classification

18. All subprojects to be included in investment program will be screened to determine their environmental category. Categorization is to be undertaken using Rapid Environmental Assessment (REA) checklists (template of the REA is given in Appendix 1), consisting of screening questions relating to (i) the sensitivity and vulnerability of environmental resources in project area, and (ii) the potential for the project to cause significant adverse environmental impacts. Projects are classified into one of the following environmental categories:

- a. **Category A:** A proposed project is classified as category A if it is likely to have significant adverse environmental impacts that are irreversible, diverse or unprecedented. These impacts may affect an area larger than the sites or facilities subject to physical works. An environmental impact assessment (EIA) is required.
- b. **Category B:** A proposed project is classified as category B if its potential adverse environmental impacts are less adverse than those of category A projects. These impacts are 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. An initial environmental examination (IEE) is required.
- c. **Category C:** A proposed project is classified as category C if it is likely to have minimal or no adverse environmental impacts. No environmental assessment is required although environmental implications need to be reviewed.

19. Categorization is to be based on the most environmental sensitive component, which means that if one part of the project is with potential for significant adverse environmental impacts, then the project is to be classified as Category A regardless of potential environmental impacts of other aspects of the project. In general, a project will be classified as 'Category A' if the project:

- (i) is a new hydropower plant, thermal plant, or large wind park;
- (ii) requires a complex mitigation measure needing to be prepared through an in-depth assessment of the impacts and detailed study for preparing mitigation measures;
- (iii) will generate impact on an ecologically sensitive area, particularly if the project is in buffer or core zone of any designated specially protected areas, or area of international significance (such as Ramsar site) or cultural heritage and archaeological sites designated by UNESCO and Ministry of Information and Culture.

20. Other energy generation or energy transmission subprojects that do not fall into the above category will likely be classified as B.

B. Requirements to Environmental Assessments and Environmental Management Plans

21. At an early stage of each subproject preparation, the DABS will identify potential direct, indirect, cumulative and induced environmental impacts on and risks to physical, biological, socioeconomic, and physical cultural resources and determine their significance and scope, in consultation with stakeholders, including affected people, women, and concerned NGOs. If potentially adverse environmental impacts and risks are identified, the DABS will undertake an environmental assessment as early as possible in the project cycle. For subprojects with potentially significant adverse impacts that are diverse, irreversible, or unprecedented, the DABS will examine alternatives to the project's location, design, technology, and components that would avoid, and, if avoidance is not possible, minimize adverse environmental impacts and risks. The rationale for selecting the subproject location, design, technology, and components will be properly documented, including, cost-benefit analysis, taking environmental costs and benefits of the various alternatives considered into account. The "no action" alternative will be also considered.

22. Impacts and risks will be analyzed in the context of each subproject's area that encompasses:

- (i) the primary subproject site(s) and related facilities;
- (ii) associated facilities that are not funded as part of the investment program, and whose viability and existence depend exclusively on the subproject and whose goods or services are essential for successful operation of the subproject;
- (iii) areas and communities potentially affected by cumulative impacts of the investment program, and other sources of similar impacts in the geographical area; and
- (iv) areas and communities potentially affected by impacts from unplanned but predictable developments caused by the subproject that may occur later or at a different location.

23. Environmental impacts and risks will also be analyzed for all relevant stages of the project cycle, including preconstruction, construction, operations, decommissioning, and post closure activities such as rehabilitation or restoration.

24. The DABS will prepare an environmental management plan (EMP) that addresses the potential impacts and risks identified by the environmental assessment. The EMP will include the proposed mitigation measures, environmental monitoring and reporting requirements, emergency response procedures, related institutional or organizational arrangements, capacity development and training measures, implementation schedule, cost estimates, and performance indicators. The structure and composition of the typical EMP is provided in Appendix 2.

25. The DABS should ensure that ADB be given access to undertake environmental due diligence for all subprojects. However, DABS has the main responsibility for undertaking environmental due diligence and monitoring the implementation of environmental mitigation measures for all subprojects. The due diligence report as well as monitoring reports on implementation of the environmental management plan needs to be documented systematically and be available to the public, if requested.

VI. CONSULTATION, INFORMATION DISCLOSURE, AND GRIEVANCE REDRESS MECHANISM

A. Public Consultation

26. For each of the subprojects the DABS will organize consultations with project affected people and other stakeholders. Consultation will be based on the following principles:

- (i) Early start in the subproject preparation stage and continuation throughout the subproject cycle;
- (ii) Timely disclosure of relevant information in a comprehensible and readily accessible to affected people format;
- (iii) Ensuring the absence of intimidation or coercion during public consultation;
- (iv) Gender inclusive and responsive with focus on disadvantaged and vulnerable groups, and
- (v) Enabling the integration of all relevant views of affected people and stakeholders into decision-making.

B. Information Disclosure

DABS and ADB agree that in disclosing environmental information for each of the subproject to the public:

- (i) DABS is responsible for ensuring that all environmental assessment documentation, including the environmental due diligence and monitoring reports, are properly and systematically kept as part of a DABS project-specific record;
- (ii) all environmental documents are subject to public disclosure, and therefore be made available to public;
- (iii) for ADB's category-A subprojects, the draft EIAs will be disclosed to the public through ADB's websites 120 days prior ADB board consideration. The EIA/IEE should be reviewed by ADB before it is disclosed to the public; and
- (iv) DABS will ensure that meaningful public consultations, particularly with project affected persons, are undertaken during the IEE/EIA preparation process for the future subprojects.

C. Grievance Redress Mechanism

27. In order to receive and facilitate the resolution of affected peoples' concerns, complaints, and grievances about the project's environmental performance an Environmental Grievance Redress Mechanism will be established for the Community Development Plan. When and where the need arises, the mechanism will be used for addressing any complaints that arise during the implementation of sub-projects identified under the Community Development Component. The Grievance Redress Mechanism will be integrated with the Grievance Redress Mechanism already in place to address social complaints that may arise during the road construction project. The Community Development Component will largely be constituted of activities such as rural access roads, culverts, small irrigation schemes, latrines, market places, small drinking water supply schemes, the environmental concerns that the communities may have in relation to the implementation these sub-projects are to be addressed by the Grievance Redress Mechanism of the road construction project. Since these are small scale activities, decided upon in consultation with the communities themselves, a basic mechanism will be sufficient to address the likely concerns. EA will inform the community members of this mechanism with assistance from local

leaders, village elders, and community representatives.

D. Grievance Focal Points, Complaints Reporting, Recording and Monitoring

28. Environment complaints can be received through Grievance Focal Points (GFPs), these will be designated personnel at various levels who would be responsible for receiving the Environmental complaint, resolving it or ensuring that it reaches the right quarters where it may be resolved. These designated GFPs may be village level local leaders, or village elders. Affected people may lodge their complaint for registration through a personal visit, call or letter to any of the GFPs.

29. Each focal Point will maintain a record of the complaints received and will follow up on their rapid resolution. The EA will enter and maintain a complete record of all Environmental complaints received alongside the record-book that serves as the social complaints register. The EA will also keep track of their status and will ensure that they are resolved

VII. INSTITUTIONAL ARRANGEMENT AND RESPONSIBILITIES

30. To prepare the follow-up subprojects and to comply with ADB's Safeguard Policy Statement (2009) and the Afghanistan environmental legislation, DABS and ADB agreed on the following:

- (i) DABS will take the following responsibilities:
 - a. Prepare environmental screening checklists and classify potential subprojects;
 - b. Based on the environmental classification of the subprojects, prepare the terms of reference to conduct an IEE or an EIA study (outline of an environmental assessment report is shown in Appendix 2);
 - c. Hire an environmental consultant or firm to prepare an IEE or EIA report, including an EMP for disclosure;
 - d. Undertake an initial review of the IEE or EIA;
 - e. Submit the IEE or EIA report and the review form to ADB as part of the approval of subproject;
 - f. Ensure that all regulatory clearances are obtained before starting civil works for the subproject.
 - g. Submit to ADB all the required clearances/certificates obtained from the relevant Government authorities.
 - h. Ensure that all the mitigation measures required to be implemented during construction are included in the bidding document;
 - i. Establish/Maintain an Environment and Social Unit within PMU to monitor the contractors and the implementation of the environmental management measures required for each sub-project;
 - j. Require the contractor to prepare site-specific EMPs for operations that includes a sub-plan for each of the work areas.
 - k. Ensure that no land will be released to the contractor until the SS EMP for that area has been prepared and approved.
 - l. Require that the contractor employ a suitably qualified or experienced environment specialist on a full-time basis to supervise the implementation of the EMP.
 - m. Require that the contractor provide awareness training in environmental management for all employees working on the project.
 - n. Ensure that an environmental management plan, including all proposed mitigation measures and monitoring programs, are properly implemented.
 - o. Monitor the implementation of environmental management plan and prepare an environmental monitoring report every six months, to be delivered to the ADB.
 - p. In the case of unpredicted environmental impacts occurring during project implementation, require the contractor to provide and implement a corrective action plan.
 - q. In case a subproject needs to have its alignment changed or its environmental classification reconfirmed, review it to determine whether a supplementary IEE or EIA study is required. If it is required, prepare the terms of reference for undertaking a supplementary IEE or EIA and hire an environment consultant to carry out the study.
 - r. Ensure that meaningful public consultation be undertaken with affected groups, women, and NGOs.
- (ii) ADB will take the following responsibilities:
 - a. Review the IEE or EIA reports as a basis for the approval of each sub-project.

- b. Disclose the final IEE or draft full EIA (at least 120 days prior to ADB Board consideration) and Final EIA, and/or environmental assessment and review framework before project appraisal, a new or updated EIA/IEE and corrective action plan prepared during project implementation, if any, as well as environmental monitoring reports on the ADB website
- c. Monitor the implementation of the EMP and due diligence as part of overall project review mission.
- d. Assist DABS, if required, in carrying out its responsibilities and safeguard capacity building.
- e. Facilitate the required consultations with project affected groups and local NGOs, and to ensure that the borrower or project sponsor provides relevant information on the project's environmental issues in a form and language(s) accessible to those being consulted.

A. Staffing Requirements and Budget

31. DABS will recruit environmental consultant(s) or firm as part of engineering design team to prepare Initial Environmental Examination / Environmental Impact Assessment reports for each subproject associated with this Investment Program.

32. The subprojects' environmental costs need to incorporate a budget and resources to (i) implement the environmental review and screening procedure, (ii) undertake the IEE/EIA studies for the follow-up subprojects, (iii) conduct stakeholder's consultations, (iv) monitor the implementation of EMPs, and (v) undertake environmental mitigation measures as required.

33. The costs of conducting training, undertaking monitoring, procuring laboratory equipment for instrumental monitoring, hiring environmental consultants, and implementing the environmental impact assessment and review framework needs also to be incorporated in the subprojects' budgets.

VIII. MONITORING AND REPORTING

34. The extent of monitoring activities, including their scope and periodicity, will be commensurate with the project's risks and impacts. DABS is required to implement safeguard measures and relevant safeguard plans, as provided in the legal agreements, and to submit periodic monitoring reports (see the template in Appendix 4) on their implementation performance. ADB will require DABS to:

- (i) establish and maintain procedures to monitor the progress of implementation of EMPs;
- (ii) verify the compliance with environmental measures and their progress toward intended outcomes;
- (i) document and disclose monitoring results and identify necessary corrective and preventive actions in the periodic monitoring reports;
- (iv) follow up on these actions to ensure progress toward the desired outcomes,
- (v) retain qualified and experienced external experts or qualified NGOs to verify monitoring information for projects with significant impacts and risks;
- (vi) use independent advisory panels to monitor project implementation for highly complex and sensitive projects, and
- (vii) submit periodic monitoring reports on safeguard measures as agreed with ADB.

35. ADB will carry out the following monitoring actions to supervise subprojects implementation:

- (i) conduct periodic site visits for projects with adverse environmental or social impacts;
- (ii) conduct supervision missions with detailed review by ADB's safeguard specialists/officers or consultants for sub-projects with significant adverse social or environmental impacts;
- (iii) review the periodic monitoring reports submitted by DABS to ensure that adverse impacts and risks are mitigated as planned and as agreed with ADB;
- (iv) work with DABS to rectify to the extent possible any failures to comply with their safeguard commitments, as covenanted in the legal agreements, and exercise remedies to reestablish compliance as appropriate; and
- (v) prepare project completion reports that assesses whether the objective and desired outcomes of the EMPs have been achieved, considering the baseline conditions and the results of monitoring.

APPENDIX 1: REA CHECKLISTS

RAPID ENVIRONMENTAL ASSESSMENT (REA) CHECKLIST FOR POWER

TRANSMISSION

Instructions:

(i) The project team completes this checklist to support the environmental classification of a project. It is to be attached to the environmental categorization form and submitted to the Environment and Safeguards Division (RSES), for endorsement by Director, RSES and for approval by the Chief Compliance Officer.

(ii) This checklist focuses on environmental issues and concerns. To ensure that social dimensions are adequately considered, refer also to ADB's (a) checklists on involuntary resettlement and Indigenous Peoples; (b) poverty reduction handbook; (c) staff guide to consultation and participation; and (d) gender checklists.

(iii) Answer the questions assuming the "without mitigation" case. The purpose is to identify potential impacts. Use the "remarks" section to discuss any anticipated mitigation measures.

Country/Project Title:

Sector Division:

Screening Questions	Yes	No	Remarks
A. Project Siting Is the project area adjacent to or within any of the following environmentally sensitive areas?			
• Cultural heritage site			
• Protected Area			
• Wetland			
• Mangrove			
• Estuarine			
• Buffer zone of protected area			

Screening Questions	Yes	No	Remarks
<ul style="list-style-type: none"> • Special area for protecting biodiversity 			
B. Potential Environmental Impacts <ul style="list-style-type: none"> • Will the Project cause... 			
<ul style="list-style-type: none"> ▪ encroachment on historical/cultural areas; disfiguration of landscape by road embankments, cuts, fills, and quarries? 			
<ul style="list-style-type: none"> ▪ encroachment on precious ecology (e.g. sensitive or protected areas)? 			
<ul style="list-style-type: none"> ▪ alteration of surface water hydrology of waterways crossed by roads, resulting in increased sediment in streams affected by increased soil erosion at construction site? 			
<ul style="list-style-type: none"> ▪ damage to sensitive coastal/marine habitats by construction of submarine cables? 			
<ul style="list-style-type: none"> ▪ deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction? 			
<ul style="list-style-type: none"> ▪ increased local air pollution due to rock crushing, cutting and filling works, and chemicals from asphalt processing? 			
<ul style="list-style-type: none"> ▪ risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during project construction and operation during project construction and operation? 			
<ul style="list-style-type: none"> ▪ chemical pollution resulting from chemical clearing of vegetation for construction site? 			
<ul style="list-style-type: none"> ▪ noise and vibration due to blasting and other civil works? 			
<ul style="list-style-type: none"> ▪ dislocation or involuntary resettlement of people? 			
<ul style="list-style-type: none"> ▪ dislocation and compulsory resettlement of people living in right-of-way? 			
<ul style="list-style-type: none"> ▪ disproportionate impacts on the poor, women and children, Indigenous Peoples or other vulnerable groups? 			
<ul style="list-style-type: none"> ▪ social conflicts relating to inconveniences in living conditions where construction interferes with preexisting roads?? 			
<ul style="list-style-type: none"> ▪ hazardous driving conditions where construction interferes with pre-existing roads? 			

Screening Questions	Yes	No	Remarks
<ul style="list-style-type: none"> ▪ poor sanitation and solid waste disposal in construction camps and work sites, and possible transmission of communicable diseases (such as STI's and HIV/AIDS) from workers to local populations? 			
<ul style="list-style-type: none"> ▪ creation of temporary breeding habitats for diseases such as those transmitted by mosquitoes and rodents? 			
<ul style="list-style-type: none"> ▪ accident risks associated with increased vehicular traffic, leading to accidental spills of toxic materials? 			
<ul style="list-style-type: none"> ▪ increased noise and air pollution resulting from traffic volume? 			
<ul style="list-style-type: none"> ▪ increased risk of water pollution from oil, grease and fuel spills, and other materials from vehicles using the road? 			
<ul style="list-style-type: none"> ▪ social conflicts if workers from other regions or countries are hired? 			
<ul style="list-style-type: none"> ▪ large population influx during project construction and operation that causes increased burden on social infrastructure and services (such as water supply and sanitation systems)? 			
<ul style="list-style-type: none"> ▪ risks to community health and safety due to the transport, storage, and use and/or disposal of materials such as explosives, fuel and other chemicals during construction and operation? 			
<ul style="list-style-type: none"> ▪ community safety risks due to both accidental and natural causes, especially where the structural elements or components of the project are accessible to members of the affected community or where their failure could result in injury to the community throughout project construction, operation and decommissioning. 			
<ul style="list-style-type: none"> ▪ risks to community safety associated with maintenance of lines and related facilities? 			
<ul style="list-style-type: none"> ▪ community health hazards due to electromagnetic fields, land subsidence, lowered groundwater table, and salinization? 			

A Checklist for Preliminary Climate Risk Screening

Country/Project Title:			
Sector:			
Subsector:			
Division/Department:			
Screening Questions		Score	Remarks ⁴
Location and Design of project	Is siting and/or routing of the project (or its components) likely to be affected by climate conditions including extreme weather related events such as floods, droughts, storms, landslides?	0	
	Would the project design (e.g. the clearance for bridges) need to consider any hydro-meteorological parameters (e.g., sea-level, peak river flow, reliable water level, peak wind speed etc)?	0	
Materials and Maintenance	Would weather, current and likely future climate conditions (e.g. prevailing humidity level, temperature contrast between hot summer days and cold winter days, exposure to wind and humidity hydro-meteorological parameters likely affect the selection of project inputs over the life of project outputs (e.g. construction material)?	0	
	Would weather, current and likely future climate conditions, and related extreme events likely affect the maintenance (scheduling and cost) of project output(s) ?	0	
Performance of project outputs	Would weather/climate conditions and related extreme events likely affect the performance (e.g. annual power production) of project output(s) (e.g. hydro-power generation facilities) throughout their design life time?	0	

Options for answers and corresponding score are provided below:

Response	Score
Not Likely	0
Likely	1
Very Likely	2

⁴ If possible, provide details on the sensitivity of project components to climate conditions, such as how climate parameters are considered in design standards for infrastructure components, how changes in key climate parameters and sea level might affect the siting/routing of project, the selection of construction material and/or scheduling, performances and/or the maintenance cost/scheduling of project outputs.

Responses when added that provide a score of 0 will be considered low risk project. If adding all responses will result to a score of 1-4 and that no score of 2 was given to any single response, the project will be assigned a medium risk category. A total score of 5 or more (which include providing a score of 1 in all responses) or a 2 in any single response will be categorized as high risk project.

Result of Initial Screening (Low, Medium, High): _____

Other Comments: _____

Prepared by: _____

APPENDIX 2. OUTLINE OF AN ENVIRONMENTAL ASSESSMENT REPORT

This outline is part of the Safeguard Requirements 1. An environmental assessment report is required for all environment category A and B projects. Its level of detail and comprehensiveness is commensurate with the significance of potential environmental impacts and risks. A typical EIA report contains the following major elements, and an IEE may have a narrower scope depending on the nature of the project. The substantive aspects of this outline will guide the preparation of environmental impact assessment reports, although not necessarily in the order shown.

A. Executive Summary

This section describes concisely the critical facts, significant findings, and recommended actions.

B. Policy, Legal, and Administrative Framework

This section discusses the national and local legal and institutional framework within which the environmental assessment is carried out. It also identifies project-relevant international environmental agreements to which the country is a party.

C. Description of the Project

This section describes the proposed project; its major components; and its geographic, ecological, social, and temporal context, including any associated facility required by and for the project (for example, access roads, power plants, water supply, quarries and borrow pits, and spoil disposal). It normally includes drawings and maps showing the project's layout and components, the project site, and the project's area of influence.

D. Description of the Environment (Baseline Data)

This section describes relevant physical, biological, and socioeconomic conditions within the study area. It also looks at current and proposed development activities within the project's area of influence, including those not directly connected to the project. It indicates the accuracy, reliability, and sources of the data.

E. Anticipated Environmental Impacts and Mitigation Measures

This section predicts and assesses the project's likely positive and negative direct and indirect impacts to physical, biological, socioeconomic (including occupational health and safety, community health and safety, vulnerable groups and gender issues, and impacts on livelihoods through environmental media), and physical cultural resources in the project's area of influence, in quantitative terms to the extent possible; identifies mitigation measures and any residual negative impacts that cannot be mitigated; explores opportunities for enhancement; identifies and estimates the extent and quality of available data, key data gaps, and uncertainties associated with predictions and specifies topics that do not require further attention; and examines global, transboundary, and cumulative impacts as appropriate.

F. Analysis of Alternatives

This section examines alternatives to the proposed project site, technology, design, and operation -including the no project alternative -in terms of their potential environmental impacts; the

feasibility of mitigating these impacts; their capital and recurrent costs; their suitability under local conditions; and their institutional, training, and monitoring requirements. It also states the basis for selecting the particular project design proposed and, justifies recommended emission levels and approaches to pollution prevention and abatement.

G. Information Disclosure, Consultation, and Participation

This section:

- (i) describes the process undertaken during project design and preparation for engaging stakeholders, including information disclosure and consultation with affected people and other stakeholders;
- (ii) summarizes comments and concerns received from affected people and other stakeholders and how these comments have been addressed in project design and mitigation measures, with special attention paid to the needs and concerns of vulnerable groups, including women, the poor, and Indigenous Peoples; and (iii) describes the planned information disclosure measures (including the type of information to be disseminated and the method of dissemination) and the process for carrying out consultation with affected people and facilitating their participation during project implementation.

H. Grievance Redress Mechanism

This section describes the grievance redress framework (both informal and formal channels), setting out the time frame and mechanisms for resolving complaints about environmental performance.

I. Environmental Management Plan

This section deals with the set of mitigation and management measures to be taken during project implementation to avoid, reduce, mitigate, or compensate for adverse environmental impacts (in that order of priority). It may include multiple management plans and actions. It includes the following key components (with the level of detail commensurate with the project's impacts and risks):

- (i) Mitigation:
 - (a) identifies and summarizes anticipated significant adverse environmental impacts and risks;
 - (b) describes each mitigation measure with technical details, including the type of impact to which it relates and the conditions under which it is required (for instance, continuously or in the event of contingencies), together with designs, equipment descriptions, and operating procedures, as appropriate; and
 - (c) provides links to any other mitigation plans (for example, for involuntary resettlement, Indigenous Peoples, or emergency response) required for the project.
- (ii) Monitoring:
 - (a) describes monitoring measures with technical details, including parameters to be measured, methods to be used, sampling locations, frequency of measurements, detection limits and definition of thresholds that will signal the need for corrective actions; and
 - (b) describes monitoring and reporting procedures to ensure early detection of conditions that necessitate particular mitigation measures and document the progress and results

of mitigation.

(iii) Implementation arrangements:

- (a) specifies the implementation schedule showing phasing and coordination with overall project implementation;
- (b) describes institutional or organizational arrangements, namely, who is responsible for carrying out the mitigation and monitoring measures, which may include one or more of the following additional topics to strengthen environmental management capability: technical assistance programs, training programs, procurement of equipment and supplies related to environmental management and monitoring, and organizational changes; and
- (c) estimates capital and recurrent costs and describes sources of funds for implementing the environmental management plan.

(iv) Performance indicators: describes the desired outcomes as measurable events to the extent possible, such as performance indicators, targets, or acceptance criteria that can be tracked over defined time periods.

J. Conclusion and Recommendation

This section provides the conclusions drawn from the assessment and provides recommendations.

APPENDIX 3. OUTLINE TERMS OF REFERENCE FOR CONSULTING SERVICES FOR ENVIRONMENTAL ASSESSMENT

A. Objectives

The objective of the consulting services is to ensure the environmental soundness and sustainability of the project and to support the integration of environmental considerations into the project-making process. This will be achieved by conducting environmental impact assessment (EIA) or initial environmental examination (IEE) of the proposed subproject to identify potential environmental impacts on physical, ecological, socioeconomic, and physical cultural resources, and preparing EIA/IEE report with environmental management plan in accordance with the ADB's Safeguard Policy Statement (2009). The indicative duration of an EIA study is 4-6 months and an IEE study – 1.5 – 3 months.

B. Scope of Work

The consultant's scope of work will include the following tasks:

- Analysis of the background materials. Background materials of the earlier studies including ecological, geotechnical, hydrogeologic, and other relevant studies for each subproject will be collected from the relevant organizations and analyzed;
- Assessment of Environmental Impacts and Development of Mitigation Measures. An EIA or IEE study to assess potential direct, indirect, cumulative, induced, as well as transboundary and global impacts of the project to physical, biological, socioeconomic, and physical cultural resources during design, construction and operation stages will be conducted. Adverse environmental impacts will be avoided, or where it is not possible
- Examination of Alternatives. Alternatives to the project's location, design, technology, as well as "no project" alternative will be assessed;
- Public consultations. Meaningful public consultations with affected people (at least two rounds consultations for EIA and one consultation for IEE) ensuring participation of all stakeholders including non-governmental organizations, women will be conducted. The list of people attended the consultation, time and locations, subjects discussed during consultation will be recorded in systematic manner and attached in the EIA/IEE report as an appendix;
- Grievance Redress Mechanism will be established;
- Preparation of IEE/EIA report. An EIA/IEE report including executive summary, policy, legal, and environmental framework, description of the project, baseline data, expected environmental impacts and mitigation measures, analysis of alternatives, information disclosure, consultation and participation, grievance redress mechanism, in accordance with ADB's Safeguard Policy Statement (2009);
- Preparation of EMP. Site-specific environmental management plan will be prepared within the framework of this activity.

C. Team Composition and Organization

Composition of an environmental assessment team will depend on the level of environmental assessment required (IEE or EIA), as well as location, type and magnitude of the project. In general, it will be based on the following requirements:

- both international and domestic specialists will be involved in environmental assessment process;
- in case of an IEE, the team will be composed of, in most cases, environmental specialists;
- in case of an EIA, sub-specialists such as biologists, hydrologists, botanists, etc will be brought into the process depending on the subproject sensitive field;
- the Team Leader (International Environmental Specialist) will have 10-15 years of experience in environmental assessment, environmental management and monitoring, construction supervision of projects including transmission line/substation construction, team management skills, experience working in teams of multi-discipline experts and leading a national team of consultants, understanding of administrative, procedural, and technical requirements of environmental assessment;
- Domestic Specialists will be graduates in environmental science, environmental engineering, geological science, engineering hydrology, biology or related discipline with significant experience in environmental management and monitoring of projects, environmental assessment and/or design and implementation of environmental mitigation measures.

D. Budget

The estimated costs for preparation of IEE and EIA (generally) are provided in Tables below. A team of International and national specialists are recommended for these studies.

Estimate of the Preparation of the IEE report for a subproject

	Months	per month	Amount
Remuneration, accommodation, per diem			
Environmental Specialist, International	2	25,000	\$50,000
Environmental Specialist, Domestic	2	4,000	\$8,000
		Subtotal	\$58,000
Out of pocket expenses			
Field studies and analysis			\$7,000
Land transport			\$5,000
Report preparation, transmission			\$2,000
Public consultations			\$2,000
Administrative and support cost			\$3,000
		Subtotal	\$19,000
Contingency (10%)			\$7,700
		Total	\$84,700

Estimate of the Preparation of the EIA report for a subproject

	Months	per month	Amount
Remuneration, accommodation, per diem			
Environmental Specialist, International	4	25,000	\$100,000
Environmental Specialist, Domestic	4	4,000	\$16,000
Ecologist, Domestic	3	4000	\$12,000
Other specialists (biologists, geologists, archeologists, etc)	6	3000	\$18,000
		Subtotal	\$146,000
Out of pocket expenses			

Field studies and analysis			\$10,000
Land transport			\$7,000
Report preparation, transmission			\$2,000
Public consultations			\$4,000
Administrative and support cost			\$5,000
		Subtotal	\$28,000
Contingency (10%)			\$17,000
		Total	\$191,000

APPENDIX 4. OUTLINE OF ENVIRONMENTAL MONITORING REPORT

Project Number: {XXXXXX}
{Reporting period: Month Year}

{Full Country Name}: {Project Title}
{(Financed by the <source of funding>)}

Prepared by {author(s)}
{Firm name}
{City, country}

For {Executing agency} {Implementing agency}

Endorsed by: (staff name of IA/PIU) and signature, submission date

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