Environmental Assessment and Review Framework

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NEPAL: Prevention and Control of COVID-19 through WASH and Health initiatives in Secondary and Small Towns

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NOTE

In this report, "\$" refers to United States dollars.

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CURRENCY EQUIVALENTS

(as of 27 April 2021)

Currency unit - Nepalese rupee (NRe)

\$1.00 = NRs119.557 NRe1.00 = \$0.008

ABBREVIATIONS

ADB Asian Development Bank
COVID-19 Coronavirus disease
DDR Due Diligence Report

DWSSM Department of Water Supply and Sewerage Management

EARF Environmental Assessment and Review Framework

EIA **Environmental Impact Assessment Environmental Management Plan EMP Environmental Monitoring Report EMR** EPA **Environment Protection Act EPR Environmental Protection Rules** IEE Initial Environmental Examination GRC Grievance Redress Committee GRM Grievance Redress Mechanism

MoWS Ministry of Water Supply

NDWQS National Drinking Water Quality Standards

O&M Operation and Maintenance

PISU Project Implementation Support Unit

PCCWHSST Prevention and Control of COVID-19 through WASH and Health

initiatives in Secondary and Small Towns

PMO Project Management Office

REA Rapid environmental assessment RPMO Regional Project Management Office

SEMP Site-specific Environmental Management Plan

SPS Safeguard Policy Statement

TOR Terms of Reference

UNICEF United Nations International Children's Emergency Fund

WHO World Health Organization
WUA Water Users Association

WUSC Water Users and Sanitation Committee

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I. INTRODUCTION

A. Prevention and Control of COVID-19 through WASH and Health initiatives in Secondary and Small Towns (PCCWHSST) Project

- 1. Prevention and Control of COVID-19 through WASH and Health initiatives in Secondary and Small Towns project (PCWHSST) is funded by Japan Fund for Poverty Reduction Project (JFPR) will support the Government of Nepal (the government) to improve selected local governments' capacity to better response to coronavirus diseases (COVID-19) pandemic through community-level interventions. The grant will have the following outputs: (a) Output I- essential public services and Water Sanitation and Hygiene (WASH) supplies to block interpersonal transmission of COVID-19 in public spaces, (b) Output II- behavior-centered community mitigation measures or campaigns to contain the pandemic and manage panic and misinformation, and (c) Output III- strengthened capacity of Department of Water Supply and Sewage Management (DWSSM), five (5) municipalities, and 10 small towns to timely respond to COVID-19 and other public health emergencies. The grant project area will be linked to the Asian Development Bank's (ADB) ongoing small towns projects and pipeline project on Integrated Water¹²
- 2. Output I include construction and operation of sanitation facilities with small scale civil works which may have limited, localized adverse environmental impacts. Hence, the project is classified as Category B for environment safeguards per ADB Safeguard Policy Statement (SPS). Any component that will reclassify the project as environment Category A³ per ADB SPS will not be financed under the project.
- 3. The project towns and municipalities have yet to allocate government land for the project facilities/components. Hence, information on the location and site-specific aspects of the sanitation facilities are not known yet. Environmental assessments will be conducted and reports such as Initial Environmental Examination (IEE) or Due Diligence Reports (DDR) will be submitted for project components after the approval of the grant and when the locations for are determined. The environmental assessment will be based on screening using ADB's rapid environmental assessment (REA) checklist in Appendix 2.

B. Purpose of the Environmental Assessment and Review Framework

² ADB. 2014. Report and Recommendation of the President to the Board of Directors: Proposed Loan to Nepal for the Third Small Towns Water Supply and Sanitation Sector Project. Manila; ADB. 2018. Report and Recommendation of the President to the Board of Directors: Proposed Loan to Nepal for the Urban Water Supply and Sanitation Sector Project. Manila. The pipeline is included in ADB's Nepal Country Operation Business Plan (2020-2022).

A project's category is determined by the category of its most environmentally sensitive component, including direct, indirect, cumulative, and induced impacts in the project's area of influence. Each proposed project is scrutinized as to its type, location, scale, and sensitivity and the magnitude of its potential environmental impacts. Projects are assigned to one of the following four categories: (i) **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 is required. (ii) **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 is required. (iii) **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. (iv) **Category FI**. A proposed project is classified as category FI if it involves investment of ADB funds to or through a financial intermediary.

- 4. This Environmental Assessment and Review Framework (EARF) has been prepared in accordance with ADB SPS and Government of Nepal Environment Protection Act (EPA) 2019 and Environment Protection Rules (EPR) 2020. This EARF was prepared to provide guidance on project component screening and categorization, environmental impact assessment, management, and monitoring, information disclosure and consultation, grievance redress, and institutional arrangement, for Output 1 components which will have potential environmental impacts during the construction and operation phases. This EARF:
 - (i) describes PCCWHSST and its components.
 - (ii) discusses the requirements of the ADB SPS, applicable national and local laws, regulations and standards on environmental assessment and management, including applicable international environmental agreements, the relevant principles governing project component preparation and implementation.
 - (iii) explains the general anticipated environmental impacts of the project components to be financed under PCCWHSST.
 - (iv) specifies the requirements for project component screening and categorization, environmental assessments, environmental management plan preparation and exclusions based on environmental selection criteria.
 - (v) provides arrangements for meaningful consultation with affected people and other stakeholders and information disclosure requirements.
 - (vi) specifies implementation procedures, including the budget and institutional arrangements; and
 - (vii) describes the responsibilities of the borrower/client and of ADB in relation to the preparation, submission, review, and clearance of safeguard documents for project components, including monitoring and reporting requirements.

II. ASSESSMENT OF LEGAL FRAMEWORK AND INSTITUTIONAL CAPACITY

A. ADB Safeguard Policy Statement

- 5. ADB SPS requires borrowers to meet a set of requirements (Safeguards Requirements 1) when delivering environmental safeguards for projects supported by ADB. The objectives are to ensure the environmental soundness and sustainability of projects, and to support the integration of environmental considerations into the project decision-making process. Hence, the project is required to comply with these requirements. Summary of the step-by-step process is discussed below in this section. Detailed discussions are provided in the ADB SPS⁴.
- 6. **Screening and Categorization.** Project components are to be screened for their expected environmental impacts and are assigned to a specific category (Footnote 2). Categorization is to be based on the most environmental sensitive component. However, for component(s) that can trigger Category A or with potentially significant adverse impacts that are diverse, irreversible, or unprecedented, Project Management Office (PMO) shall examine alternatives to the component's location, design, technology, and components that would avoid, and, if avoidance is not possible, minimize adverse environmental impacts and risks, and to meet Category B categorization. For this grant, the most environmentally sensitive component is the multipurpose shelter. The indicative list of packages for the grant is provided in Appendix 1. Components that will be categorized as Category A for the environment will be excluded.
- 7. **Environmental Assessment.** Environmental assessment shall include description of environmental and social baseline to provide an understanding of current conditions forming the

⁴ ADB. 2009. Safeguard Policy Statement. Manila.

benchmark against which project component impacts are assessed. Environmental impacts and risks will be analyzed for all relevant stages of the project cycle, including design and planning stage, construction, operations, decommissioning, and post-closure activities such as rehabilitation or restoration. The environmental assessment, including the project environmental impacts and corresponding mitigation measures will be documented thru an IEE or DDR, depending on the category of the project components. The structure and composition of a typical IEE report is provided in Appendix 5. IEEs or DDRs for the project components shall be prepared after the grant approval once the locations of project components are determined.

- 8. **Environmental Planning and Management.** The EMP shall describe and address the potential impacts and risks identified by the environmental assessment. The level of detail and complexity of the EMP and the priority of the identified measures and actions will be commensurate with the project's impact and risks. The Environmental Management Plan (EMP) shall 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. Environmental quality standards applicable to the grant activities are presented in Appendix 4. Appendix 9 provides a generic EMP which provides guidance in managing environmental impacts from project activities.
- 9. **Public Disclosure**. The Executing Agency (EA), through the PMO, shall submit the following documents to ADB for disclosure on ADB website. Relevant information from these documents will be provided in a timely manner, in accessible place, and in a form and language understandable to affected people and other stakeholders.⁵
 - (i) draft/final IEEs/DDRs upon receipt.
 - (ii) new or updated environmental impact assessment reports (IEEs/DDRs including EMPs); and
 - (iii) relevant monitoring results and corrective action plan prepared during project component implementation, if any.
- 10. **Consultation and Participation.** The EA through the PMO and Regional PMOs (RPMO), and with assistance from project towns and municipalities grant coordinators, shall carry out meaningful consultation⁶ with affected people and other concerned stakeholders, including civil society, and facilitate their informed participation. The consultation process and its results are to be documented and reflected in the environmental assessment report. Appendix 6 provides a template for documenting public consultation activities. The EA is required to comply with COVID-19 health protocols during the conduct of consultation activities.
- 11. **Grievance Redress Mechanism.** The EA, through PMO, is required to establish a mechanism to receive and facilitate resolution of affected peoples' concerns, complaints, and grievances about the project's environmental performance. The grievance mechanism shall be

⁵ Per ADB SPS, 2009, prior to disclosure on ADB website, ADB reviews the "borrower's/client's social and environmental assessment and plans to ensure that safeguard measures are in place to avoid, wherever possible, and minimize, mitigate, and compensate for adverse social and environmental impacts in compliance with ADB's safeguard policy principles and Safeguard Requirements 1-4."

⁶ Per ADB SPS, 2009, meaningful consultation means a process that (i) begins early in the project preparation stage and is carried out on an ongoing basis throughout the project cycle;1 (ii) provides timely disclosure of relevant and adequate information that is understandable and readily accessible to affected people; (iii) is undertaken in an atmosphere free of intimidation or coercion; (iv) is gender inclusive and responsive, and tailored to the needs of disadvantaged and vulnerable groups; and (v) enables the incorporation of all relevant views of affected people and other stakeholders into decision making, such as project design, mitigation measures, the sharing of development benefits and opportunities, and implementation issues.

scaled to the risks and adverse impacts of the project. The Grievance Redress Mechanism (GRM) under UWSSP is functioning well, with regular reporting on and resolution of issues, concerns, and grievances, and the same would be adopted for the grant. The GRM is discussed in detail in Section VI below. A sample grievance redress form is provided in Appendix 7.

- 12. **Monitoring and Reporting.** The EA through PMO shall monitor, measure, and document the progress of implementation of the EMP. If necessary, PMO will identify the necessary corrective actions, and reflect them in a corrective action plan. PMO will prepare and submit to ADB environmental monitoring reports that describe progress with implementation of the EMP and compliance issues and corrective actions, if any, as part of quarterly progress reports that will be prepared for the project. The reporting on EMP implementation will continue until ADB issues a grant completion report. A template for the reporting environmental safeguards implementation is provided in Appendix 8.
- 13. **Unanticipated Environmental Impacts.** Where unanticipated environmental impacts become apparent during project implementation, the EA through the PMO shall update the environmental assessment and EMP or prepare a new environmental assessment and EMP to assess the potential impacts, evaluate the alternatives, and outline mitigation measures and resources to address those impacts.
- 14. **Pollution Prevention and Control Technologies**. During the design, construction, and operation of the project, the EA through the PMO and RPMOs shall apply pollution prevention and control technologies and practices consistent with international good practice, as reflected in internationally recognized standards such as the World Bank Group's Environmental, Health and Safety Guidelines. These standards contain performance levels and measures that are normally acceptable and applicable to projects. When the Government of Nepal regulations differ from these levels and measures, the executing agency shall achieve whichever is more stringent. If less stringent levels or measures are appropriate in view of specific project circumstances, the executing agency will provide full and detailed justification for any proposed alternatives that are consistent with the requirements presented in ADB SPS.
- 15. **Occupational Health and Safety.** The EA through PMO⁷ shall ensure that workers⁸ are provided with a safe and healthy working environment, considering risks inherent to the sector and specific classes of hazards in the project work areas, including physical, chemical, biological, and radiological hazards. PMO shall ensure to take steps to prevent accidents, injury, and disease arising from, associated with, or occurring during the course of work by (i) identifying and minimizing, so far as reasonably practicable, the causes of potential hazards to workers; (ii) providing preventive and protective measures, including modification, substitution, or elimination of hazardous conditions or substances; (iii) providing appropriate equipment to minimize risks and requiring and enforcing its use; (iv) training workers and providing them with appropriate incentives to use and comply with health and safety procedures and protective equipment; (v) documenting and reporting occupational accidents, diseases, and incidents; and (vi) having emergency prevention, preparedness, and response arrangements in place.
- 16. The executing agency through the PMO shall ensure to apply preventive and protective measures consistent with international good practice, as reflected in internationally recognized

⁷ In case where responsibility is delegated to subproject contractors during construction phase, PMO shall ensure that the responsibilities on occupational health and safety as described herein are included in the contract documents.

⁸ Including nonemployee workers engaged by the borrower/client through contractors or other intermediaries to work on project sites or perform work directly related to the project's core functions.

standards such as the World Bank Group's Environmental, Health and Safety Guidelines.9

- 17. **Community Health and Safety.** The EA through the PMO shall ensure to identify and assess the risks to, and potential impacts on, the safety of affected communities during the design, construction, operation, and decommissioning of the project, and will establish preventive measures and plans to address them in a manner commensurate with the identified risks and impacts.
- 18. **Physical Cultural Resources**. The EA through the PMO is responsible for siting and designing the project to avoid significant damage to physical cultural resources. Such resources likely to be affected by the project will be identified, and qualified and experienced experts will assess the project's potential impacts on these resources using field-based surveys as an integral part of the environmental assessment process. When the proposed location of a component is in areas where physical cultural resources are expected to be found as determined during the environmental assessment process, chance finds procedures shall be included in the EMP.
- 19. **Environmental Audit.** When the project involves existing activities or facilities, the EA through the PMO shall ensure that environmental audits are conducted to determine the existence of any areas where the project may cause or is causing environmental risks or impacts. The audit shall form part of the environmental assessment for the project.
- 20. **Bidding and Contract Documents.** Environmental assessment reports and EMPs are to be included in bidding and contract documents and verified by the PMO and the RPMOs. The PMO and RPMOs shall also ensure that bidding and contract documents include specific provisions requiring contractors to (i) comply with all other conditions required by ADB, ¹⁰ and (ii) to submit to RPMO and PMO, for review and approval, a site- specific environmental management plan (SEMP), including (i) proposed sites/locations for construction work camps, storage areas, hauling roads, lay down areas, disposal areas for solid and hazardous wastes; (ii) specific mitigation measures following the approved EMP; (iii) monitoring program as per site-specific environmental management plan (SEMP); and (iv) budget for SEMP implementation. No works can commence prior to approval of SEMP. A copy of the EMP or approved SEMP will be always kept on site during the construction period. Non-compliance with, or any deviation from, the conditions set out in the EMP or SEMP constitutes a failure in compliance and shall require corrective actions.
- 21. Conditions for Award of Contract and Commencement of Work. PMO shall not award any Works contract until (i) relevant provisions from the EMP are incorporated into the Works contract; and (ii) the IEE is updated to reflect project's detailed design and PMO has obtained ADB's clearance of such IEE. For "design, build, and operate" type contracts, PMO shall ensure no works for a subproject which involves environmental impacts shall commence until (i) relevant provisions from the EMP are incorporated into the Works contract; and (ii) the IEE is updated to reflect the project's detailed design and PMO has obtained ADB's clearance of such IEE.

B. Government Environmental Impact Assessment Law

9 World Bank Group, 2007. Environmental, Health, and Safety General Guidelines. Washington, DC.

Ontractors to comply with (i) all applicable labor laws and core labor standards on (a) prohibition of child labor as defined in national legislation for construction and maintenance activities; (b) equal pay for equal work of equal value regardless of gender, ethnicity, or caste; and (c) elimination of forced labor; and with (ii) the requirement to disseminate information on sexually transmitted diseases, including HIV/AIDS, to employees and local communities surrounding the project sites.

- 22. **Environmental Protection Act (EPA), 2019** This Act requires a proponent to undertake Brief Environmental Study (BES), IEE or Environmental Impact Assessment (EIA) of the proposed project and have the BES/IEE or EIA Report approved by the concerned prior to implementation.
- 23. **Environmental Protection Rules (EPR), 2020**. The Rules defines implementing rule and regulations of the BES, IEE or EIA process, elaborating the provisions in the EPA. The preparation, review, and approval of BES, IEE and EIA Reports pertain to article 2 of EPR 2020. Schedules 1, 2 and 3 list down the projects of activities that require BES, IEE and EIA, respectively. Table 1 presents the required environmental assessment for activities/works under the multipurpose shelter/community hall applicable to the grant project.

Table 1: Required Environment Assessment for the project under Government of Nepal Environmental Protection Rules

S.N.	Schedule 1: Activities Requiring Brief Environmental Study	Applicability to JFPR PCCHWSST Project Components
	urpose shelter (3000-5000 square	
	complex that will have arrival or	BES or IEE (depending on detailed design for each municipality)

C. Other Relevant National Laws, Policies and Guidelines

24. Table 2 below summarizes all other relevant national laws, policies and guidelines that will be complied with under the project. As the project will avoid projects with potential triggers for Category A classification per ADB SPS, all laws, policies and guidelines governing these types of projects are already excluded in the table.

Table 2: Other Relevant National Laws, Policies, and Guidelines of Nepal

Policy/Law/				
	Year *	Relevant Provisions	Remarks	
National Urban Policy	2007	The Policy gives importance to environment	The Project	will
		conservation while carrying out urban	implement	the
		development works and natural resource use.	objectives of the Policy.)
Solid Waste	2011	The Act stipulates the responsibility of generators	The Project	will
Management Act		of hazardous, medical, chemical, or industrial wastes in the management of such wastes. The		EMPs to
		Act also requires individuals and entities to reduce		are
		the amount of solid waste generated while carrying out their work or business.	managed accord	dingly.
Labor Act	1992	The Act stipulates the need to provide workers with	The	Project's
		safe and clean environment at workplaces,	Environmental	-
		including safety measures in place for workers and	Management	Plans
		procedures established for emergency situations.	(EMPs) will	provide
			measures to	mitigate
			workers'	
				and
			safety hazards.	

The Building Act National Environmental	1998 1993	The action plan aims to: (i) mitigate adverse environmental impacts of projects; and (ii)	with the provisions mentioned in project component design The Project will help achieve the action plan
Policy and Action Plan (NEPAP)		safeguard national and cultural heritage and preserve biodiversity, within and outside protected areas.	
Local Self- Governance Act	1999	The Act gives the Local Government the functions, duties, and powers to, among others: (i) conserve and protect their local environment and natural resources; (ii) plan, implement and/or operate and maintain local water supply projects. (iii) implement or arrange for implementation local sanitation/sewerage and drainage projects; (iv) protect cultural heritage and religious sites; and/or (v) monitor project activities within their jurisdictions.	local Governments fulfil their functions and
Local Government Operation Act	2074	The legal mechanism was enacted as per the Article 296 (1) of the Nepal Constitution-2015 to leverage local leadership and governance system. The Act has stipulated several arrangements related to authorities, duties and responsibilities of local government, assembly meeting and working system, assembly management procedures, plan formulation and implementation, judicial works, financial jurisdictions, administrative structure, and district assembly, among others. This act describes rights, duties and responsibilities in different development and conservation sectors. It clarifies the rights of municipalities/rural municipalities to form local laws, regulations, and criteria for conservation of environment protected areas and species; for environmental pollution and hazard control; solid waste management; etc.	local Governments fulfil their functions and duties

⁽Year) - Year last amended.

D. International Environmental Agreements.

25. Table 3 below lists the relevant international environmental agreements that Nepal is party to, and their relevance to various subprojects under PCCWHSST.

Table 3: International Environmental Agreements Relevant to the project

	rable of international Environmental Agreements Relevant to the project			
International				
Environmental				
Agreement	Year *	Relevant Provisions	Remarks	
World Heritage Convention	1978	, , , , ,	support components that	

Convention on Wetlands of International Importance Especially as Waterfowl Habitat (Ramsar Convention)	1987		
Convention on Biodiversity	1992	assessment of projects that are likely to	with this agreement. The
UN Framework Convention on Climate Change	1992	anticipate, prevent or minimize the causes of	PCCWHSST will help the Government of Nepal comply with this agreement. PCCWHSST will ensure implementation of EMPs as measure to minimize the causes of climate change.
Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal	1996	, ,	Government of Nepal comply with this agreement. PCCWHSST will ensure

⁽Year) - Year last amended.

III. ENVIRONMENTAL ASSESSMENT FOR PROJECT COMPONENTS

A. Environmental Assessment Processes for Project Components

26. Environmental assessment for project components must follow both the ADB SPS and Government EIA processes. Table 4 below shows the steps of complying with these processes in relation to the project component processing stages.

Table 4	: Environmental Assessment Proces	
		Government of Nepal Environmental
Project Stage	ADB Safeguard Policy Statement	Protection Rules
Subproject Identification/ Categorization	Project component selection in line with the EARF project component selection criteria. PMO to complete rapid environmental assessment (REA) checklist and Project Categorization carried out at the earliest	Categorization of project components is based on categories in Schedule 1, Schedule 2, and Schedule 3 of Environmental Protection Rules (EPR), 2020 1. For project components falling under Schedule 1 only brief environmental study
	stage of project preparation when sufficient information is available for this purpose. REA checklists applicable to this project are attached in Appendix 2.	(BES) is required. 2. For project components falling under Schedule 2, initial environmental examination is required. 3. For project components falling under Schedule 3, environmental impact assessment (EIA) is required.
Ç	Draft IEE/DDR with EMP is in line with the EARF.	For project components requiring BES/IEE, PMO to: 1. Prepare draft BES/IEE pertaining to article 2 and schedule 1 and 2 of EPR 2020. 2. Prepare draft work plan, public notice and IEE report following format in Schedule 7, 9 and 11 of EPR. 3. Submit draft IEE to concerned ministry for review and approval.
	Consultation will be carried out in a manner commensurate with the impacts on affected communities. The consultation process and its results are to be documented and reflected in the environmental assessment report. ADB requires meaningful consultation, which is defined as a process that (i) begins early in the project preparation stage and is carried out on an ongoing basis throughout the project cycle; (ii) provides timely disclosure of relevant and adequate information that is understandable and readily accessible to affected people; (iii) undertaken in an	For project components requiring BES/IEEs, Article 6, EPR 2020, Requirement to conduct public hearing project proponent should conduct public hearing and collect opinion and suggestions on proposal in project affected area because of implementing of project (i) Project proponent should ensure participation of affected local community, representative of FUG in case of formed FUG and representative from local government. (ii) Project proponent should conduct public hearing in more than one location based on geographies covered by the project (iii) Project proponent should post notices along with date, time, venue should be posted
	atmosphere free of intimidation or coercion; (iv) gender inclusive and responsive, and tailored to the needs of disadvantaged and vulnerable groups; and (v) enables the incorporation of all relevant views of affected people and	in local newspaper, radio or other media, ward office of concerned local level and any public place of project area for dissemination of project (iv) Include attendance, received opinion and suggestion, photographs and audio-video

	other stakeholders into decision making, such as project design, mitigation measures, the sharing of development benefits and opportunities, and implementation issues. This is required of all projects.	material from public hearing conducted as per this rule in IEE report (iv) Schedule 9, EPR 2020. Rural/Urban municipalities, school, hospital, and health post and concerned person or organization are requested to provide/send their written opinions and suggestions on impact on physical system, biological system, social system, cultural system, and economic system in mentioned address within seven (7) days from the date of posting.
	Disclosure by ADB on its website the following: (i) EARF before project appraisal, and (ii) final IEE/DDR reports after securing government endorsement of the reports. Disclosure by government on its website or any accessible place all environmental information and documents such as IEE reports in a form or language understandable to affected people and other stakeholders. For illiterate people,	The EPR does not require to disclosure of BES and IEE but the project proponent should publish notice in national daily newspaper with a timeline of seven days to collect opinion and suggestions. EIA should be made public and available to download
Mitigration	other suitable communication methods will be used.	The DEC IEE or EIA remerts required upday
Mitigation Measures	Mitigation measures specified in the IEE/DDR incorporated in project design.	The BES, IEE or EIA reports required under the EPR 2020 shall follow formats mentioned in schedule 10, 11 and 12 respectively that include mitigation measures for environmental impacts identified.
	EMP implementation and monitoring responsibilities incorporated in the bid and contract documents.	The EPR does not provide requirement for incorporating EMP implementation and monitoring in the bid and contract documents.
Approval	The executing agency after review of IEE/DDR will forward to ADB for review. Cleared IEE/DDR is sent back to executing agency for endorsement. Cleared and endorsed IEE/DDR is required prior to approval and issuance of tender documents and shall form part of the said tender documents.	For IEE reports, concerned ministry will provide approval/decisions to PMO within 15 days from receipt of the reports. Provided that no substantial negative environmental impact is found in the proposal.
Contract Award	No contract award until: (i) Environmental clearances required by the Government have been obtained. (ii) IEE/DDR with EMP has been finalized, cleared by ADB, and disclosed to public. (iii)IEE/DDR and another safeguard requirements are included in bidding documents and civil works contracts. and (iv) EMP implementation is reflected in the Project Administration Manual (PAM).	There is no reference to procurement and contract in the EPR.
Implementation	ADB supervision missions shall review effective EMP implementation. EA will submit to ADB the following	For IEEs, concerned ministry to monitor the implementation of the EMP measures. If findings suggest that the impacts are higher than what was determined in the reports,

documents for disclosure on ADB's website:

- (i) updated/final IEE/DDR (if updated/finalized due to change in scope and/or detailed design).
- (ii) corrective action plan prepared during project implementation, if any; and (iii) reports that describe progress with implementation of the EMP and compliance issues and corrective actions, if any, as part of quarterly progress reports that will be prepared for the project.

PMO to adopt new measures to reduce these impacts.

IV. THE PROJECT AND ITS COMPONENTS

- 27. Six (Bidur, Charali, Nirmalpokhari, Lalbandhi, Tikapur, and Mahendranagar) of 20 towns from the Third Small Towns Water Supply and Sanitation Sector Project, and four (Siddhanath Baijnath, Pragatinagar, Subaghat, and Dadhikot) out 20 project towns from the Urban Water Supply and Sanitation Sector Project, from different ecological region and provinces of Nepal will participate under PCCWHSST project. In addition, the EA and IA selected five (5) municipalities (Bharatpur, Butwal, Dhangadhi, Nepalgunj and Birgunj) using the following selection criteria, i.e., are likely to be supported under the proposed IWSSM, have high number of COVID-19 cases, are border towns, and are district/provincial headquarters.
- 28. The Project is to strengthen local government and communities' capacity to mitigate and contain the COVID-19 pandemic and similar health emergency in future in five secondary and 10 small towns. The project outputs are:
- 29. Output 1: Essential WASH facilities and services for blocking interpersonal transmission in public spaces provided. Output includes: (i) sex-segregated mobile handwashing stations operated, mobile toilets provisioned in marketplaces, and existing public toilets rehabilitated or refurbished with sufficient basic sanitation commodities; (ii) elderly, women, children, and physically impaired friendly multipurpose shelters built in project towns which could be used as quarantine centers for vulnerable groups when community transmission of COVID-19 happens and the evacuation is required; (iii) essential medical screening appliances and proper sized personal protective equipment to primary health care facilities provided; and (iv) health consultation desks in selected primary health care facilities of five secondary towns, and in selected water utility offices and poverty clusters of 10 small towns with gender sensitized team.
- 30. Output 2: Behavior-centered community mitigation measures strengthened. Output 2 includes: (i) gender sensitive behavior change campaigns conducted to vulnerable populations on good personal hand hygiene practice, environmental disinfection and affordable personal safety measures to help protect themselves from being infected; (ii) community support systems strengthened to better combat COVID-19 and similar pandemic associated social stigma and discrimination; (iii) basic health literacy increased through empowering and mobilizing women's group, youth organizations, community-based organizations, and or tole level organizations; (iv) home based soap and disinfectants making training conducted for women from vulnerable communities; and (v) female community health volunteers mobilized[1] to drive risk communication campaigns to disseminate correct information on COVID-19 to most vulnerable groups and provide teleconsultations and social support to individuals under quarantine.
- 31. Output 3: Institutional capacity of selected local governments and communities to contain COVID-19 pandemic strengthened. Output 3 includes: (i) five-year emergency and preparedness plan of five project secondary towns adopted for strengthening towns capacity to detect, prevent and control the communicable disease outbreak; (ii) health and safety protocols that is gender sensitive adopted for project towns to operate and maintain public facilities and services in a safe manner; (iii) staff of project towns and DWSSM report increased skill and knowledge on health and safety protocols; (vi) standard operating procedures developed and used to manage contaminated solid waste for project towns; (vii) frontline sanitation and waste workers' of project towns report increased capacity to disinfect public spaces in accordance with health and safety protocols; (viii) trainings and capacity building activities organized at the community level that support the operation and the maintenance (O&M) of services and facilities

on disinfection practices (handwashing stations and toilets), infectious prevention and control (multipurpose shelters) and health promotion (health consultation desks).

32. **Project component Selection.** Table 5 summarizes the Output 1 project components and selection criteria. The indicative list of project components is summarized in Appendix 1.

Table 5: Output 1 Project Components and Selection Criteria

16	able 5: Output 1	Project Components and Selection Criteria
Component	Subcomponent	
Essential public services for blocking interpersonal transmission in public spaces provided.		 Located in, or adjacent to, a frequently used/core public area of the municipality (most densely populated) on the Water Users Sanitation Committee (WUSC) or municipality land with no or minimum involuntary resettlement/ social impacts (for example, space of public market, sports complex or if there would be exhibition or any municipal function Should not be located near or adjacent to a river or pond Should not be located inside a protected area or government forest land Necessary agreement and approvals have been obtained in accordance with relevant laws and regulations Ensure that each toilet unit will have adequate water and hand washing facilities in it. An O&M plan is developed providing details on the frequency and responsibility for collection and disposal of septic waste at approved site, and commitment to provide minimum operational staff and operate the facilities in sustainable manner is given by Water Users Association (WUAs) or municipalities. Identity roles and responsibilities for each of the tasks. If the municipality does not have adequate capacity, the WUSC has agreed to manage the mobile toilet on behalf of the municipality until the municipality has adequate capacity
		 Hygiene promotion campaign and educational program is developed, and the WUSC or Municipality commits to implementing the same.
	Rehabilitation and refurbishment of existing public toilets	 Implementation will ensure that (i) septic tanks of the toilets will be sealed to make them watertight and emptied as per the design requirements and as per relevant municipal and environmental regulations; (ii) appropriate borehole case and screen are installed; and (iii) a test pit is established, and water quality monitoring is regularly conducted (at least once every quarter) and (iv) the septic tank will be enhanced to accommodate (for primary treatment) the sludge from mobile toilets. Hygiene promotion campaign and educational program is developed, and the WUSC or
	Sex-segregated mobile hand washing units	Municipality commits to implementing the same. Located in, or adjacent to, a frequently used/core public area (like weekly market) on the WUSC or municipality land with no or minimum involuntary resettlement/ social impacts. Should not be located near or adjacent to a river or pond Should not be located inside a protected area or government forest land Hygiene promotion campaign and educational program is developed, and the WUSC or

	Municipality commits to implementing the same.
Health desks	 Located in premise of WUSC and ward office of each municipality. Facility is designed in accordance with appropriate standards. In the absence of national standards, international standards, such as those prescribed by the Environmental Protection Agency of the United States of America, may be used.
Multipurpose shelters with elderly, wome children, and physically impaired frier built	 Located in, or adjacent to, a frequently used public area on the WUSC or municipality land with no or minimum involuntary resettlement/ social impacts Should not be located near or adjacent to a river or pond Should not be located inside a protected area or government
	 Necessary agreement and approval have been obtained in accordance with relevant laws and regulations Multipurpose shelters will be designed as per national standards and DWSS's design guidelines to allow for portable drinking water supply, other utilities, and maximum retention of septic waste (minimum 3 years) and water sealing. Detailed investigations are carried out to confirm adequate and sustainable utilities are available to maintain hygiene and cleanliness

33. **Specific Environment Safeguards Criteria.** In addition to the above general criteria, the project component will be screened using the ADB REA checklist (Appendix 2) and selected based on the following specific environment safeguards criteria (Table 6). Any project component, which does not meet the general criteria above and specific criteria listed below may be rejected.

Table 6: Environment Safeguards Criteria for Project Component Selection

Specific Criteria Related to			
Component	Subcomponent	Environment Safeguards	Remarks
General		<u> </u>	Remarks
General	All project	will not have impacts that are	
	components	irreversible, diverse and/or	
		unprecedented, which may classify	
		the project as Category A for	
		environmental safeguards	
		not directly affect protected areas,	
		core zones of	
		biosphere reserves, highly valued	
		cultural property	
		not be in the following ecologically	
		sensitive areas: wildlife/bird	
		sanctuaries, national parks, tiger	
		reserves, elephant reserves,	
		conservation reserves, core zone of biosphere reserves, centrally	
		protected monuments or	
		critical habitat (as defined in ADB	
		Safeguard Policy Statement, SPS)	
		not be deemed highly complex and	
		sensitive in accordance with ADB	
		SPS	
		Not cause damage/destruction,	If location is within 300 m of
		removal, alteration, or defacement	Nepal protected
		of adjacent or nearby	monuments/ sites and there
		structures/monuments and sites of	is no alternative, permissions
		international, national, and local	from the Department of
		significance. Project components	Archaeology to be obtained
			prior to finalization of detailed
		such sites shall have prior	engineering design
		coordination with the Department of	
		Archaeology	
		Only involve activities that follow all	Permits/clearances to be
		applicable government laws, rules,	obtained prior to award of
		and regulations	contract
		Not include and/or involve any	
		activities listed in ADB's Prohibited	
		Investment Activities List (Appendix 5	
		of ADB SPS). These activities do not	
		qualify for ADB's financing	
		ı ı	Consultations shall be in
		consultations	accordance with ADB SPS
			requirement for meaningful
			consultations

	Corresponding IEEs)/DDRs prepared in accordance with this EARF and Safeguard Requirements 1 of ADB SPS; identified all the key potential environmental and social impacts and risks; and incorporated effective measures to avoid, minimize, mitigate, or compensate for the adverse impacts into an EMP and project design.	IEE/DDR to be submitted to ADB for review and approval prior to bidding for civil works project components or prior to civil works for Design Build (DB) project components
Mobile Public Toilets	Selected land with adequate buffer	In case of non-availability of suitable sites due to land and technical design constraints in already developed areas, where adequate buffer is not available, following procedures shall be adopted and documented to finalize sites for implementation of project: (i) conduct alternate site analysis, justify the selected site; (ii) develop odor mitigation measures to prevent and control odor/air emissions—design measures, and operational practices that are feasible and practical in local conditions and include in DPR; (iii) develop layout plan with maximum buffer to nearby houses (iv) public information — consult local community, inform about the need, process adopted to select sites, its suitability, and measures adopted for odor prevention and control
	Includes water source for maintaining cleanliness and hygiene	
	Design includes septic waste management plan/system:(i) promotes and facilitates correct septic tank design and maintenance. Septic tank design complies with effluent quality and maintenance	

	needs; ¹¹ (ii) provided with appropriate, systematic, safe, and regular collection of fecal sludge and septic waste; (iii) uses appropriate collection vehicles.	
	Not located in areas prone to landslides	
	Design includes septic waste management plan/system:(i) promotes and facilitates correct septic tank design and maintenance. Septic tank design complies with effluent quality and maintenance needs; ¹² (ii) provided with appropriate, systematic, safe, and regular collection of fecal sludge and septic waste; (iii) uses appropriate collection vehicles.	
	Storm water drainage system is incorporated into design and requirements for drainage maintenance measures are incorporated into the operations and maintenance manual and suitable budget allowed for to ensure ongoing performance of measures	
	For projects that may affect natural streams or rivers, the project implementation support unit at WUSC/municipality shall ensure that comments and advice received from project management office (PMO), design engineers, and appropriate departments are incorporated into the planning, design, and construction of the project components as far as practicable. If there is vegetation or landscaping features forming part of the mitigation requirements, the PMO and design engineers shall also identify the maintenance party during the design stage	

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Examples of key septic system design considerations are presented in the General EHS Guidelines. More complicated septic tank designs (e.g., three chambers, added sand filters, etc.) can improve effluent quality, but are usually more susceptible to clogging and other failures, especially if regular maintenance is not performed.

¹² Examples of key septic system design considerations are presented in the General EHS Guidelines. More complicated septic tank designs (e.g., three chambers, added sand filters, etc.) can improve effluent quality, but are usually more susceptible to clogging and other failures, especially if regular maintenance is not performed.

V. GENERAL ANTICIPATED ENVIRONMENTAL IMPACTS

34. The Output 1component's potential impacts, issues and concerns based on a "No Mitigation Measures Scenario" (Appendix 3) are presented in Tables 7 to 9 below.

Table 7: Mobile toilets and rehabilitation/refurbishment of existing toilets: Potential Environmental Impacts, Issues and Concerns (No Mitigation Measures Scenario)

Environmental Impacts, Issues and Concerns (No Mitigation Measures Scenario)			
Design	Construction	O&M	
 social conflicts arising from 	noise	 unsatisfactory fecal 	
location of mobile toilets	dust	management	
 inadequate protection of 	 traffic 	 delivery of unsafe discharge 	
rehabilitation work sites leading to	 impairments associated with 	from toilets to sewer system	
disturbances to neighborhood	access roads	 excessive algal growth in in 	
 inadequate water supply to 	 health and safety hazards to 	and around toilet premises	
maintain cleanliness and foul	workers	 increase in production of 	
smell	 population influx that causes 	sewage beyond capabilities of	
 competing uses of water for 	increased burden on social	community facilities inadequate	
supply in mobile and existing	infrastructure and services (such	disposal of sludge from septic	
toilets	as water supply and sanitation	tanks	
 increase in production of 	systems)	 health and safety hazards to 	
fecal discharge beyond	 social conflicts if workers 	workers from handling and	
capabilities of community facilities	from other regions or countries	management of phenol used for	
due to increase in users	are hired	disinfection, other contaminants,	
 increased sewage flow due 	 risks to community health 	and biological and physical	
to increased discharge in sewer	and safety due to transport, and	hazards	
line	use and/or disposal of materials	 discharge of unsafe 	
 health hazards arising from 	such as fuel and other chemicals	wastewater due to poor	
inadequate design of facilities for	 community safety risks due 	operations and maintenance	
discharging and managing fecal	to both accidental and natural	(O&M) treatment processes	
waste	hazards, especially where	 inadequate disinfection due 	
 pollution of land and water 	structural elements or	to lack of adequate monitoring of	
sources/canals/drainage from	components of the project are	phenol (carbolic acid) and other	
fecal discharge	accessible to the members of the	acids/disinfectant supply	
 Unavailability of land/space 	affected community or where	discharge of wastewater	
for storing, managing, and	failure could result in injury to the	contaminated with corrosive	
disposing waste from mobile	community	chemicals to sewer/drainage and	
toilets	 clearance of existing land, 	canal system.	
 inadequate open space 	vegetation, market/vendors, or	accidental leakage/spillage	
around mobile toilets	building	of corrosive chemicals	
 dislocation or involuntary 	 cut and fill or excavations 	increased volume of fecal	
resettlement of people	 use of resources (materials, 	waste	
disproportionate impacts on the	,	• use of resources (materials,	
	changes in occurrence of	water, energy etc.)	
	disease or affect disease vectors	positive impacts -	
vulnerable groups	(e.g., insect or water- borne	employment to local people; safe	
• permanent or temporary	disease) due to worker's camp.	and easy access to improved	
change in land use or topography	 solid wastes such as spoils, 	sanitation which will enhance	
	overburden, etc.	people's health and safety	
intensity of land use	 solid wastes from worker's 	• improved sanitation	
	camp	conditions of municipalities	
	emission from burning of	• transmission and spread of	
	waste in open air (e.g., worker's	COVID-19 or other diseases from	
	camp, slash materials,	lack of frequent cleaning and	
	construction debris)	sanitation	

Design	Construction	O&M
	 transmission and spread of 	
	COVID-19 among workers and the community"	

Table 8: Mobile Hand Washing Units and Health Desks Component: Potential Environmental

Impacts, Issues and Concerns (No Mitigation Measures Scenario)

Design	Construction	O&M
wastewater discharge and	interference with other	wastewater discharge
management	utilities and blocking of access to	 use of resources water
 inadequate space 	buildings	 transmission and spread of
 social conflicts arising from 	 dislocation or involuntary 	COVID-19 among workers
location of hand washing units	resettlement of people	 positive impacts - easy
and health desks	 disproportionate impacts on 	access to improved sanitation
 inadequate water supply to 		which will enhance people's
maintain cleanliness		health and safety
 health hazards arising from 	vulnerable groups	 improved sanitation
inadequate design of facilities for	 risks and vulnerabilities 	conditions of municipalities
discharging and managing	related to occupational health and	 Prevention and control of
wastewater.	safety due to physical, and	spread of COVID-19
 unavailability of land/space 	biological hazards	
for storing, managing, and	 use of resources (materials, 	
disposing wastewater.	water, energy, etc.)	
 inadequate open space 	 changes in occurrence of 	
around the hand washing units	disease or affect disease vectors	
and health desks	(e.g., insect or water- borne	
 relocation of existing 	disease) due to worker's camp.	
facilities	 transmission and spread of 	
 dislocation or involuntary 	COVID-19 among workers and	
resettlement of people	the community	
 disproportionate impacts on 		
the poor, women and children,		
indigenous peoples, or other		
vulnerable groups		

Table 9: Multipurpose shelter Component Potential Environmental Impacts, Issues and Concerns

(No Mitigation Measures Scenario)

Design	Construction	O&M
	 dislocation or involuntary 	risks and
the poor, women and children,	resettlement of people	vulnerabilities related to
Indigenous Peoples, or other		occupational health and
vulnerable groups	poor, women and children, Indigenous	safety due to physical,
 environmental pollution due 	Peoples, or other vulnerable groups	chemical, and biological
to inadequate wastewater	 dust, noise, and vibration due civil 	hazards
management system	works	 discharge of
 discharge of hazardous 	 risks and vulnerabilities related to 	hazardous materials into
materials into the drains	occupational health and safety due to	drains
 permanent or temporary 	physical, chemical, and biological	 transmission and
change in land use or topography	hazards	spread of COVID-19
including increases in	 traffic disturbances due to 	among workers

intensity of land use construction material positive impacts transport and wastes employment to local social conflicts between people; enhance construction workers from other areas disaster/pandemic and community workers response capacity of risks to community health and conditions of safety due to the transport, storage, and municipalities use and/or disposal of materials such as Prevention and explosives, fuel, and other chemicals control of spread of community safety risks due to both COVID-19 accidental and natural hazards, 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 clearance of existing land, vegetation, or building pre-construction investigations (boreholes, soil testing, etc.) demolition works temporary sites used for construction works or housing of construction workers cut and fill or excavations use of resources (materials, water, energy, etc.) changes in occurrence of disease or affect disease vectors (e.g., insect or water- borne disease) due to worker's camp. solid wastes such as spoils, overburden, etc. and from worker's camp emission from burning of waste in open air (e.g., worker's camp, slash materials. construction debris) transmission and spread of COVID-19 among workers and the community

- 35. However, since the project component locations/sites and design will be screened following the project component/design selection, as well as the environmental safeguards criteria in Tables 5 and 6, the potential environmental impacts due to the component design and location as listed in Tables 7 to 9 are expected to be avoided or minimized. Output 1 components (installation of mobile toilets and hand washing facilities, rehabilitation of existing toilets, construction of multipurpose shelters, and the operation of these facilities) will not have significant adverse environmental impacts that are irreversible, diverse, or unprecedented. Potential impacts are site-specific and unlikely to affect areas larger than the sites or facilities subject to physical works. Mitigation measures can be readily developed to reduce all negative impacts to acceptable levels. The PMO will ensure that that these selection criteria are considered in the detailed design of the components and that measures will be included in the component designs. In most cases, mitigation measures can be designed with uncomplicated measures commonly used at construction sites and known to civil works contractors.
- 36. Due Diligence Reports or IEEs including environmental management plans (EMPs) will

be prepared for project components when the location of the components is determined. It will describe and address the potential impacts and risks identified associated with the project component impacts during the preconstruction, construction, and operation phase. The EMPs will include 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 relevant environmental performance indicators. The generic EMP for multipurpose shelters and other small civil works provided in Appendix 9 presents the potential impacts, mitigation measures, responsibilities, and sources of fund to guide the preparation of the EMP/SEMP for the project components. This EARF and generic EMP, and the DDRs or the IEEs and EMPs will be included in the bidding and contract documents which will have specific provisions requiring contractors to (i) comply with all other conditions required by ADB¹³ and (ii) to submit a site-specific environmental management plan (SEMP), including (a) proposed sites/locations for construction work camps, storage areas, hauling roads, lay down areas, disposal areas for solid and hazardous wastes: (b) specific mitigation measures following the approved EMP: (c) monitoring program as per SEMP and in accordance with the EMP; and (iv) budget for SEMP implementation.

¹³ Contractors to comply with (i) all applicable labor laws and core labor standards on (a) prohibition of child labor as defined in national legislation for construction and maintenance activities; (b) equal pay for equal work of equal value regardless of gender, ethnicity, or caste; and (c) elimination of forced labor; and with (ii) the requirement to disseminate information on sexually transmitted diseases, including HIV/AIDS, to employees and local communities surrounding the project sites.

VI. CONSULTATION, INFORMATION DISCLOSURE AND GRIEVANCE REDRESS MECHANISM

A. Consultation

- 37. ADB SPS requires meaningful consultation with affected people that:
 - (i) begins early in the project preparation stage and is carried out on an ongoing basis throughout the project cycle.
 - (ii) provides timely disclosure of relevant and adequate information that is understandable and readily accessible to affected people.
 - (iii) is undertaken in an atmosphere free of intimidation or coercion.
 - (iv) is gender inclusive and responsive, and tailored to the needs of disadvantaged and vulnerable groups; and
 - (v) enables the incorporation of all relevant views of affected people and other stakeholders into decision making, such as project design, mitigation measures, the sharing of development benefits and opportunities, and implementation issues.
- 38. Also, EPR 2020 specifies that the opinion and suggestions on the potential environmental impacts of the proposed project component shall be sought from the public by the proponent during the conduct of environmental assessment.
- 39. To comply with the requirements of both the ADB and the Government of Nepal, therefore, PMO and RPMO will:
 - (i) conduct consultation in more than one location based on geographies covered by the project, following the procedure of the Government of Nepal described in EPR 2020.
 - (ii) send notice to the concerned stakeholders requesting for their written opinions and suggestions within 7 days regarding their perceived impacts of the project component's implementation: and
 - (iii) publish a notice in local newspaper, radio or other media, ward office of concerned local level and any public place of project area for dissemination of project. Received opinion and suggestions, will be considered in the preparation and environmental assessment, and include attendance, photographs, and audiovideo material from consultations in the IEE report.
- 40. The consultation shall be conducted, and its handouts shall be written, in the national language. The consultation process shall be well documented. All relevant views and concerns raised during the consultation shall be:
 - (i) incorporated in the IEE reports/DDRs; and
 - (ii) considered in the design of the proposed activity. Attendance sheets and notes of informal and formal consultations for shall be included in the IEE reports/DDRs as proofs that consultation/s had been held. Template of attendance sheet is in Appendix6.
- 41. The PMO and RPMO shall be open to contact for consultation by the public on environmental assessment matters, including review of environmental implications, from the project preparation stage and throughout PCCWHSST implementation phases.
- 42. The PMO and RPMO shall comply with the COVID-19 health protocols in the implementation of public consultation activities and consider use of various channels to ensure meaningful consultation.

B. Information Disclosure

- 43. PMO and RPMOs will be responsible for ensuring that all IEEs, environmental due diligence reports, quarterly progress reports and grievance redress documents are properly kept as part of project records. PMO and the RPMOs will:
 - (i) ensure that hard and/or electronic copies of these documents are made available at locations accessible to all stakeholders such as the offices of PMO, RPMOs, Municipalities/PISU and WUSCs.
 - (ii) ensure that the summary of a project component IEE/DDR is translated in the local language and made available to all stakeholders and posted on bulletin boards or similar accessible locations at the offices of PMO, RPMOs and WUSCs; and
 - (iii) all environmental documents including IEE reports/DDRs are disclosed on project website.
- 44. The PMO will submit to ADB the following documents for disclosure on ADB's website:
 - (i) the EARF before project appraisal; and
 - (ii) the draft updated and/or final IEE/DDR reports for all project components.

C. Grievance Redress Mechanism

- 45. The Grievance Redress Mechanism (GRM) under UWSSP is functioning well, has regular reporting on issues, concerns and grievances and resolution, and the same would be adopted for the grant.
- 46. The Grievance Redress Committee (GRC) will receive, evaluate, and facilitate resolution of affected persons' concerns, complaints, and grievances related to social, environmental, and other concerns on the project. The GRM will aim to provide a time-bound and transparent mechanism to resolve such concerns. Grievances may be channeled through letters, emails, text messages (SMS), verbal narration, grievance boxes and registers. Suggested template for grievance redress form is in Appendix 7.
- 47. A sample grievance registration form will be published on the project website in local language and/or indigenous people dialect, at the hoarding board of each of the participating WUSC or municipalities' office. Every grievance shall be registered with careful documentation of process adopted for each of the grievance handled, as explained below. The environmental and social safeguards officer (ESO/SSO) at the PMO will have the overall responsibility for timely grievance redress on environmental and social safeguards issues. The SSO at the RPMO will be the focal person for facilitating the grievance redress at the local level.
- 48. A municipal-level public awareness campaign will be conducted on a regular basis as per the communication strategy of the project to ensure awareness on the project and its' GRM. The designated focal persons (deputy project managers) for social and environmental safeguards will oversee ensuring the implementation of the environmental and social safeguards requirements for this project. Social Development Specialist will support the WUC or municipalities in conducting municipality-wide awareness campaigns, which will ensure that all stakeholders including poor and vulnerable are aware of the GRM and project's entitlements.
- 49. A grievance redress committee (GRC) will be formed at the Municipality level, comprising the Mayor as Chairperson of GRC, and Regional Project Manager RPMO as Secretary. The GRC members will comprise of (1) WUSC Secretary/PISU; (2) RPMO Engineer; (3) RPMO social/environmental (as relevant) officer, (4) representative of affected persons, (5) Safeguard specialist (social/environment as relevant), (6) a representative of reputable and relevant

CBO/SHG/organization working in the project area as invitee ¹⁴, and (7) contractor's representative. The secretary of the GRC will be responsible for convening timely meetings and maintaining minutes of meetings. The Social Development Specialist will support the RPMO safeguard's officer and Project Manager of RPMO to ensure that grievances, including those of the poor and vulnerable are addressed. All GRCs shall have at least two women committee members. Along with representatives of the affected persons, civil society and eminent citizens can be invited as observers in GRC meetings.

- 50. The functions of the local GRC are as follows: (i) provide support to affected persons on problems arising from environmental or social disruption; asset acquisition (if necessary); and eligibility for entitlements, compensation and assistance; (ii) record grievances of affected persons, categorize and prioritize them and provide solutions within 15 days of receipt of complaint by WUSC or local bodies; and (iii) ensure feedback to the aggrieved parties about developments regarding their grievances and decisions of the GRC. The GRM procedure is depicted in Figure 1, and is outlined below in detail, with each step having time-bound schedules and responsible persons to address grievances and indicating appropriate persons whose advice is to be sought at each stage, as required. If affected persons are not satisfied with the response, they can elevate it to the next level:
 - (i) First Level of GRM (WUSC/PISU level): The first level, which is also the most accessible and immediate venue for guick resolution of grievances will be the contractors, RPMO supervision personnel, who will immediately inform the WUSC/PISU. Any person with a grievance related to the project works can contact PCCWHSS to file a complaint. The municipal-level field office of the RPMO, in WUSC's building, will document the complaint within 24 hours of receipt of complaint in the field, and WUSC/PISU or local bodies will immediately address and resolve the issue at field-level with the contractor, supervision personnel of RPMO and Social Development Specialist within 5 days of receipt of a complaint/grievance. The assigned focal person at WUSC/PISU will be responsible to fully document: (i) name of the person, (ii) date of complaint received, (iii) nature of complaint, (iv) location and (v) how the complaint was resolved as well as to provide feedback to the complainant. If the complaint remains unresolved at the local level within 5 days, the WUSC/PISU will forward the complaint to the municipality level GRM.
 - (ii) Second Level of GRM (Municipality level): The complainant will be notified by the WUSC that the grievance is forwarded to the Municipality-level GRC. The Municipality-level GRC will be called for a meeting, called, and chaired by the Mayor. The GRC will recommend corrective measures at the field level and assign clear responsibilities for implementing its decision within 10 days of receipt of complaint by WUSC. If the grievance remains unresolved within 10 days of receipt of complaint by WUSC, the matter will be referred to the third level. The RPMO Engineer will be responsible for processing and placing all papers before the GRC, recording decisions, issuing minutes of the meetings, providing feedback to complainants, and taking follow up actions so that formal orders are issued, and decisions are carried out.

¹⁴ If the complaints are related with IP/Dalits/other vulnerable groups, specific NGO/CBO that actively involved in development of these communities shall be involved.

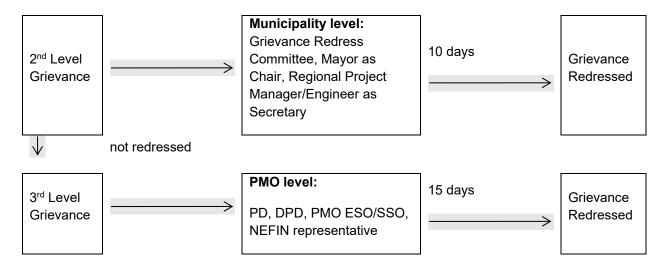
- (iii) Third Level of GRM (PMO Level): Any unresolved or major issues at Municipality level will be referred to the PMO for final solution. A representative of the Nepal Foundation for Indigenous Nationalities (NEFIN) will be invited to attend any meetings related to resolution of Indigenous Peoples grievances. Decision must be made within 15 days of receipt of complaint from the Municipality-level GRC.
- 51. The Project Director will sign off on all grievances received by the PMO. The concerned Deputy Project Director (DPD) and environmental and social safeguards officers (ESO and SSO) of PMO will be involved with support from the Senior Engineer/Environmental specialist and Social Development Specialist (Consultant). The SSO will be responsible to convey the final decision to the complainant.
- 52. All paperwork (details of grievances) needs to be completed by the WUSC member secretary/PISU focal person assisted by Social Development Specialist and circulated to the WUSC Chairperson and members, and Social Development section of the Municipality. At Municipality level, the RPMO Engineer will be responsible for circulation of grievances to the Regional Project Manager, DWSSM, Mayor and other GRC members, prior to the scheduled meetings. The RPMO's Engineer will be responsible for follow-through of all escalated grievances. All decisions taken by the GRC will be communicated to the affected persons by the RPMO's SSO.
- 53. Despite the project GRM, an aggrieved person shall have access to the country's legal system at any stage and accessing the country's legal system can run parallel to accessing the GRM and is not dependent on the negative outcome of the GRM.
- 54. If the established GRM is not able to resolve the issue, the affected person also can use ADB's Accountability Mechanism through directly contacting (in writing) the Complaint Receiving Officer (CRO) at ADB headquarters or the ADB Nepal Resident Mission. The complaint can be submitted in any of the official languages of ADB's developing member countries (DMCs). The ADB's Accountability Mechanism information will be included in PCCWHSST Information Datasheet (PID), to be published in web and distributed to the affected communities, as part of the project GRM.

Affected Person

WUA level: WUSC/PISU focal person, supervision personnel of RPMO, Social Development Specialist, contractors,

Total Contractors of the person of the person of the personnel of

Figure 1. Grievance Redress Mechanism for PCCWHSST



ESO=environmental safeguards officer, SDO=social development officer, SSO=social safeguards officer, GRC = grievance redress committee; PD = project director; DPD=Deputy Project Director; PMO = project management office, NEFIN = Nepal Federation of Indigenous Nationalities.

VII. INSTITUTIONAL ARRANGEMENT AND RESPONSIBILITIES

A. Institutions and Responsibilities

- 55. The EA will be the Ministry of Water Supply (MoWS). The DWSSM (under MoWS) will be the implementing agency. Project Director of Third Small Towns Water Supply and Sanitation Sector Project and Urban Water Supply and Sanitation (Sector) Project will be given responsibility as Project Director for the JFPR project 15. Two full time dedicated engineers will be appointed or deployed for managing day to day implementation of the grant. For the overall project management, four individual consultants will be engaged using individual consultant selection method.¹⁶ DWSSM confirmed to engage additional individual consultants, if required, from their own sources. The PMO under the UWSSP also has focal persons dedicated each for Gender Equality and Social Inclusion (GESI), environmental and social safeguards who can aid in the safeguard's aspects of the grant. Municipalities in secondary towns and WUSCs in small towns will be responsible for the implementation of civil works and capacity building/training activities with support from the DWSSM. 17 A Project Implementation Support Unit (PISU) will be established in social development section of the grant municipality and WUSCs of the selected small towns. Since the start of the COVID-19 pandemic, the DWSSM has been working with development partners and nongovernment organization (national and international) to ensure continuity of WASH services across the country. The DWSSM will coordinate with Department of Health services, to ensure synergy and avoid duplication of ADB's support. National Water Supply and Sanitation Training Center (NWSSTC) in collaboration and coordination with Department of Health Services, United Nations International Children's Emergency Fund (UNICEF) and World Health Organization (WHO) will support DWSSM to implement institutional strengthening and capacity development activities of the grant. Figure 2 shows the institutional arrangement for safeguards implementation.
- 56. The PMO under the DWSSM will be responsible for overall project planning, management, implementation, monitoring and reporting for the project. The PMO will be supported by a Senior Engineer/Environmental Consultant, and individual consultants who will be responsible for screening the proposed project components in accordance with the project component selection criteria for the project 18, assisting the municipalities in conducting feasibility studies, reporting to and being point of liaison with ADB on the project; quality control of detailed design and construction supervision; procurement of civil works contractors; support for capacity building; and overseeing safeguard compliance. The PMO will liaise with WUSCs or municipalities to sign the management agreement prior to the award of contract for each project component. The PMO will also engage all consultants under the project.
- 57. The RPMOs established under UWSSP in (i) Itahari, Sunsari, for the eastern region, (ii) in Nepalgunj, Banke, for the western region, and (iii) PMO (Kathmandu) will act as RPMO for central region projects. The RPMOs will report to the PMO and be supported and monitored by PMO to implement the projects in the field and manage contractors. The RPMOs will liaise with the grant coordinators in the project towns and municipalities. The RPMOs will manage the construction supervision with support from project consultant (senior engineer) that PMO would engage for the

¹⁵ DWSSM will continue the existing PMO established and operational for the Third Small Towns Water Supply and Sanitation Sector project and Urban water Supply and Sanitation Sector Project.

¹⁶ JFPR Grant Coordinator, Public Health Specialist, Senior Engineer and Social Development Specialist.

¹⁷ In line with the Nepal constitution, local government can make decisions that are more representative of their localized health needs and management of health posts are devolved to the local government.

¹⁸ Subproject selection criteria (covering all aspects of a proposed subproject other than the selection criteria for environment is discussed in this EARF).

project component; a dedicated implementation core group¹⁹ will be established in the field, at each WUSC's office/PISU headed by a qualified engineer from the RPMO to conduct day-to-day project management, planning, and construction supervision.

58. The WUSC or the municipality will be responsible for O&M of the multipurpose shelter, mobile public toilets, and sanitation facilities (public toilets) rehabilitated/ constructed, operating under a management agreement with DWSSM. WUSCs consist of nine executive members, at least three of whom are women.

¹⁹ The implementation core group, as a minimum, comprises of (i) an Engineer, a Social mobilizer, and an EMP monitor, RPMO; (ii) an Administration Staff, or a Finance Staff, or Engineer or Junior Engineer of WUSC/PISU as grant coordinator.

²⁰ 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.

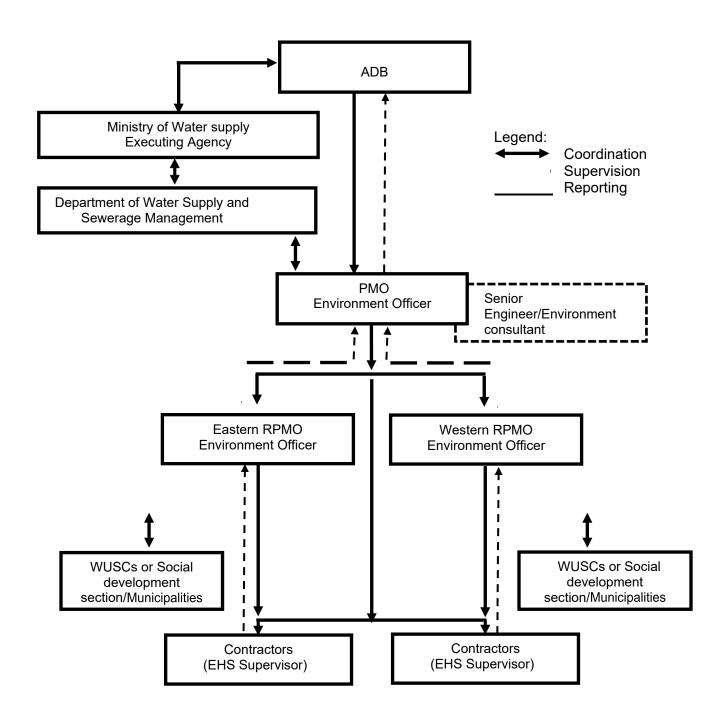


Figure 2: Safeguard Implementation Arrangement

ADB = Asian Development Bank, EHS = Environmental, Health and Safety, PMO – project management office, RPMO = regional project management office, WUSC = Water Users and Sanitation Committee.

- 59. **Project Management Office.** A project officer (Engineer/Environment) will be engaged in PMO to ensure implementation of environmental safeguards. He/she will be provided with necessary consultant support, and capacity development and training. The responsibilities of the Environment Officer are:
 - (i) prepare/update the IEEs/DDRs and EMPs based on detailed designs, in accordance with this EARF and government rules.
 - (ii) prepare the REA checklists and determine the project component environmental category.
 - (iii) ensure that the IEEs/DDRs and EMPs are included in bidding documents and civil works contracts.
 - (iv) provide oversight on environmental management aspects of project components and ensure EMPs are implemented by RPMOs and contractors.
 - (v) establish a system to monitor environmental safeguards of the project including monitoring the indicators set out in the monitoring plan of the EMP.
 - (vi) facilitate and confirm overall compliance with all Government rules and regulations regarding site and environmental clearances as well as any other environmental requirements as relevant.
 - (vii) supervise and provide guidance to the RPMOs to properly carry out the environmental monitoring and assessments as per the EARF.
 - (viii) review, monitor and evaluate effectiveness with which the EMPs are implemented, and recommend necessary corrective actions to be taken.
 - (ix) consolidate monthly environmental monitoring reports from RPMOs and submit environmental safeguards compliance reports to ADB through the QPRs.
 - (x) ensure timely disclosure of final IEEs/DDRs and EMPs in project locations and in a form accessible to the public.
 - (xi) assist with ongoing meaningful consultation and assist in setting up of GRM in respect of environment concerns.
 - (xii) address any grievances brought about through the GRM in a timely manner as per the IEEs.
 - (xiii) undertake regular review of safeguards-related loan covenants, and the compliance during program implementation; and
 - (xiv) organize periodic capacity building and training programs on safeguards for project stakeholders, PMO, RPMOs, and WUSCs.
- 60. **Regional Project Management Offices.** The environmental officer assigned by DWSSM to the RPMOs will receive support from (i) the PMO environmental officer and (ii) Senior Engineer/Environmental specialist (Consultant) to carry out the following:
 - (i) conduct regular site inspections and ensure proper implementation of EMPs including environmental monitoring by contractors.
 - (ii) take corrective actions when necessary to ensure no environmental impacts.
 - (iii) submit monthly environmental monitoring reports to PMO.
 - (iv) assist with ongoing meaningful consultation and assist in setting up of GRM in respect of environment concerns; and
 - (v) address any grievances brought about through the GRM in a timely manner as per the IEEs and in accordance with this EARF.

- 61. **Senior Engineer/Environmental Specialist (Individual Consultant).** The Senior Engineer who is also responsible for managing environmental safeguards matters will provide support to the PMOs in the following areas.
- 62. The detailed TORs are in the PAM:
 - (i) consult with municipality and concerned WUSCs during the feasibility study and fixing the location of the proposed community shelter and WASH facilities.
 - (ii) prepare and finalize detailed designs with quantities and ensure detailed designs accommodate the recommendations of the land acquisition and resettlement plans and the environmental management.
 - (iii) visit the existing public toilets facilities in the town, assess the status of operation, consult with Municipality and WUSC and propose required maintenance or renovation/rehabilitation with future operation mechanism.
 - (iv) conduct the IEEs/due diligence and prepare the IEE reports/DDRs according to the provisions of this EARF and applicable government regulations.
 - (v) anticipate the likely environmental impacts of the grant activities and proactively plan to take necessary action so that implementation is not delayed.
 - (vi) during the construction phase, monitor the project's compliance with environmental management plan and/or environmental mitigation action plan as well as any other environmental issues in co-ordination with Municipality, WUSCs, DWSSM and other stakeholders.
 - (vii) Prepare quarterly environmental monitoring reports for the project as part of the quarterly progress reports, following monitoring requirements stipulated in this EARF, and the respective IEE/due diligence for project components and submit it to the PMO for review and endorsement
 - (viii) Prepare Environmental Safeguard Report when required in consultation with JFPR Grant Coordinator.
- 63. **Civil Works Contracts and Contractors.** The contractor will be required to designate an Environment, Health and Safety (EHS) supervisor/officer to ensure implementation of EMP during civil works. Contractors are to carry out all environmental mitigation and monitoring measures outlined in their contract. The contractor will be required to submit to RPMO, for review and approval, a SEMP including (i) proposed sites/locations for construction work camps, storage areas, hauling roads, lay down areas, disposal areas for solid and hazardous wastes; (ii) specific mitigation measures following the approved EMP; (iii) monitoring program as per SEMP; and (iv) budget for SEMP implementation. No works can commence prior to approval of SEMP. The contractor will be required to undertake day to day monitoring and report to the respective RPMO.
- 64. A copy of the EMP or approved SEMP will be always kept on site during the construction period. Non-compliance with, or any deviation from, the conditions set out in the EMP or SEMP constitutes a failure in compliance and will require corrective actions.
- 65. The PMO and RPMOs will ensure that bidding and contract documents include specific provisions requiring contractors to comply with: (i) all applicable labor laws and core labor standards on (a) prohibition of child labor as defined in national legislation for construction and maintenance activities; (b) equal pay for equal work of equal value regardless of gender, ethnicity, or caste; and (c) elimination of forced labor; and with (ii) the requirement to disseminate information on sexually transmitted diseases, including HIV/AIDS, to employees and local communities surrounding the project sites.

B. Staffing Requirement

66. In addition to the regular position of the environmental focal persons in the PMO and RPMOs, a senior engineer who will also look after environmental safeguards issues will be recruited. The senior engineer will support the PMO/RPMOs to conduct the IEEs/due diligence and prepare the IEE reports/DDRs according to the provisions of this EARF.

C. Budget

67. The estimated costs for EARF implementation are presented in Table 10. It includes the costs for consultants' support for the PMO and RPMOS, environmental monitoring, mitigation/compensatory measures, capacity building, administrative costs, and other costs, e.g., conduct of consultations, resolution of grievances and eventual unanticipated impact from project implementation.

Table 10: Indicative Costs for Environmental Assessment and Review Framework Implementation

No.	Particulars	Stages	Unit	Total Number	Rate (NRs)	Cost (NRs)	Cost Covered by
Α.	Consultants Costs				,	,	
1.	Engineer/Environmental Specialist safeguard specialist	Responsible for environmental safeguards of the project at project management office (PMO)	person months (spread over entire project implementation period)	24-person months	300,000 per person month		Cost covers only remuneration, which together with budget for travel covered in the contract
B.	Tree plantation and Environmental Monitoring						
2.	Compensatory plantation measures (average estimate)	Construction	No. of plantation activities	As needed	Lump Sum	5,000,000	Civil works contract
3.	Air quality monitoring	Pre-construction (baseline) Construction	No. of sampling activities	Once during pre- construction to be used as baseline			Civil works contract
4.	monitoring	Pre-construction (baseline) Construction	No. of sampling activities	As needed during construction			Civil works contract
5.		Pre-construction (baseline) Construction Operation and Maintenance (for water supply, wastewater and receiving body of water, if any))	No. of sampling activities	phase As needed during operation and maintenance phase			Costs during operation and maintenance phase covered by respective WUAs or municipalities.
С	Capacity Building						

No.		Particulars	Stages	Unit	Total	Number	Rate (NRe)	Cost (NRe)	Cost Covered by
		induction course for contractors, preparing them on environmental management plan (EMP) implementation and environmental monitoring requirements related to mitigation measures; and taking immediate action to remedy unexpected adverse impacts or ineffective mitigation measures found during implementation; and	prior to contract of award for civil works	Lumpsum				200,000	Covered under Output 2 - Improved Institutional Capacity and Project Implementation Platform
No.	Particulars	Stages	Unit	Total N	umber	Rate (NRe)		Cost NRe)	Cost Covered by
D.	Administrative Costs								
1.	Legislation, permits, and agreements	Permit for excavation, tree-cutting permits etc.	Lumpsum						These consents are to be obtained by contractor at his own expense.

		Environmental assessment and environmental clearances as per ECA and ECR requirements	Per town	10	60,000	,	Covered under the PMO
	Other Costs						
1.	Public consultations and information disclosure	Information disclosure and consultations during preconstruction and construction phase, including public awareness campaign through media	As per requirement	Lumpsum	350,000		Covered under PMO budget
2.	Grievance redress mechanism (GRM) implementation	Costs involved in resolving complaints (meetings, consultations, communication, and reporting/ information dissemination)	As per requirement	Lumpsum	200,000		Covered under PMO budget
3.	Any unanticipated impact due to project implementation	Mitigation of any unanticipated impact arising during construction phase and defect liability period		Lumpsum	Contractor's liability	requirement	Civil works contract – contractor's insurance

VIII. MONITORING AND REPORTING

- 68. The monitoring activities will correspond with the project's risks and impacts and will be identified in the IEEs/DDRs for the project components. The PMO and RPMOs, will undertake site inspections and document review to verify compliance with the EMP and progress toward the desired outcome.
- 69. Compliance with grant covenants will be screened by the PMO. RPMOs will submit monthly monitoring and implementation reports to PMO, who will take follow-up actions, if necessary. The PMO environmental safeguard consultant will document monitoring results, identify the necessary corrective actions, reflect them in a corrective action plan, and for each quarter, will study the compliance with the action plan developed in the previous quarter. PMO will submit the project's environmental safeguards compliance reports through the quarterly progress report to ADB.
- 70. ADB will review project performance against the EA commitments as agreed in the legal documents. The extent of ADB's monitoring and supervision activities will be commensurate with the project's risks and impacts. Monitoring and supervising of social and environmental safeguards will be integrated into the project performance management system. ADB will carry out the following monitoring actions to supervise project 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 projects with significant adverse social or environmental impacts.
 - (iii) review the periodic monitoring reports submitted by PMO to ensure that adverse impacts and risks are mitigated, as planned, and as agreed with ADB.
 - (iv) work with PMO to rectify to the extent possible any failures to comply with their safeguard commitments, as covenanted in the legal agreements, and exercise remedies to re-establish compliance as appropriate; and
 - (v) prepare a project completion report that assesses whether the objective and desired outcomes of the safeguard plans have been achieved, considering the baseline conditions and the results of monitoring.
- 71. ADB's monitoring and supervision activities are carried out on an on-going basis until a Grant Completion Report is issued.

INDICATIVE LIST OF PACKAGES

The list will be updated in the Project Administration Manual and Procurement Plan. The procurement plan will be updated by the PMO for approval by ADB, at least annually, and more frequently if necessary, and shall cover the next 18 months of procurement activity.

PCCWHSST Indicative List of Packages

Package Number	General Description
Goods and Works	
W01	Construction of multipurpose community shelters (20 nos.)
	Mobile toilets- 30 nos (4 nos. in five secondary cities and two each for 10 small towns)
G02	Supply of basic sanitation and hygiene commodities in 15 municipalities/small towns
G03	Procurement of disinfectant sprayers in each selected municipality and small town
	Rehabilitation/refurbishing of existing public toilets including septic tank in the project municipalities/small towns
	Establishment of health desks and handwashing stations in 15 municipalities
Consulting Service	es
C01	JFPR Grant Coordinat or
C02	Senior Engineer (Design, Procurement, Monitoring and Quality Control)
C03	Social Development Specialist
C04	Public Health Specialist

Rapid Environmental Assessment (REA) Checklist for Urban Development

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 Safeguards Division (SDSS) for endorsement by the Director, SDSS 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.

C	country/Project Title:			
S	ector Division:			
	Screening Questions	Yes	No	Remarks
	A. Project Siting Is the project area			
	Densely populated?			
	Heavy with development activities?			
	Adjacent to or within any environmentally sensitive areas?			
	Cultural heritage site			
	Protected Area			
	Wetland			
	Mangrove			
	Estuarine			
	Buffer zone of protected area			
	Special area for protecting biodiversity			
	Bay			
	B. Potential Environmental Impacts Will the Project cause			
	impacts on the sustainability of associated sanitation and solid waste disposal systems and their interactions with other urban services.			

Screening Questions	Yes	No	Remarks
deterioration of surrounding environmental conditions due	1 00	140	romano
to rapid urban population growth, commercial and			
industrial activity, and increased waste generation to the			
point that both manmade and natural systems are			
overloaded and the capacities to manage these systems			
are overwhelmed?			
degradation of land and ecosystems (e.g., loss of			
wetlands and wild lands, coastal zones, watersheds, and			
forests)?			
dislocation or involuntary resettlement of people?			
disproportionate impacts on the poor, women and			
children, Indigenous Peoples, or another vulnerable			
group?			
group:			
degradation of cultural property, and loss of cultural			
heritage and tourism revenues?			
occupation of low-lying lands, floodplains, and steep			
hillsides by squatters and low-income groups, and their			
exposure to increased health hazards and risks due to			
pollutive industries?			
water resource problems (e.g., depletion/degradation of			
available water supply, deterioration for surface and			
ground water quality, and pollution of receiving waters?			
air pollution due to urban emissions?			
'			
risks and vulnerabilities related to occupational health and			
safety due to physical, chemical, and biological hazards			
during project construction and operation?			
road blocking and temporary flooding due to land			
excavation during rainy season?			
noise and dust from construction activities?			
Hoise and dust from construction activities?			
traffic disturbances due to construction material transport			
and wastes?			
temporary silt runoff due to construction?			
hazarda ta publia haalth dua ta ambiant hausahald and			
hazards to public health due to ambient, household, and occupational pollution, thermal inversion, and smog			
formation?			
ioiniauoit:			
water depletion and/or degradation?			
overpaying of ground water, leading to land subsidence,			
lowered ground water table, and salinization?			
contamination of surface and ground waters due to			
improper waste disposal?			
	<u> </u>		

40

Screening Questions	Yes	No	Remarks
pollution of receiving waters resulting in amenity losses, fisheries and marine resource depletion, and health problems?			
large population influx during project construction and operation that causes increased burden on social infrastructure and services (such as water supply and sanitation systems)?			
social conflicts if workers from other regions or countries are hired?			
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 operation and construction?			
community safety risks due to both accidental and natural hazards, 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?			

A Checklist for Preliminary Climate Risk Screening

Country/Project Title:	
Sector:	
Subsector:	
Division/Department:	

Screening Que	Screening Questions				
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?				
	Would the project design (e.g., the clearance for bridges) need to consider any hydro-meteorological parameters (e.g., sealevel, peak river flow, reliable water level, peak wind speed etc.)?				
Materials and	Would weather, current, and likely future climate conditions (e.g., prevailing humidity level, temperature contrast between				
Maintenance	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)?				
	Would weather, current, and likely future climate conditions, and related extreme events likely affect the maintenance (scheduling and cost) of project output(s)?				
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 lifetime?				

Options for answers and corresponding score are provided below:

Response	Score
Not Likely	0
Likely	1
Very Likely	2

Responses when added that provide a score of 0 will be considered <u>low risk</u> 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 <u>medium risk</u> 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 <u>high-risk</u> project.

Result of Initial Screening (Low, Medium, High):	
Other Comments:	
Prepared by:	

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.

Environments, Hazards and Climate Changes

	Environments, Hazards and Climate Changes
Environment	Natural Hazards and Climate Change
environments	Low erratic rainfall of up to 500 mm rainfall per annum with periodic droughts and high rainfall variability. Low vegetative cover. Resilient ecosystems & complex pastoral and systems, but medium certainty that 10–20% of drylands degraded; 10-30% projected decrease in water availability in next 40 years; projected increase in drought duration and severity under climate change. Increased mobilization of sand dunes and other soils as vegetation cover declines; likely overall decrease in agricultural productivity, with rain-fed agriculture yield reduced by 30% or more by 2020. Earthquakes and other geophysical hazards may also occur in these environments.
humid plains, foothills, and hill country	More than 500 mm precipitation/yr. Resilient ecosystems & complex human pastoral and cropping systems. 10-30% projected decrease in water availability in next 40 years; projected increase in droughts, heatwaves, and floods; increased erosion of loessmantled landscapes by wind and water; increased gully erosion; landslides likely on steeper slopes. Likely overall decrease in agricultural productivity & compromised food production from variability, with rain-fed agriculture yield reduced by 30% or more by 2020. Increased incidence of forest and agriculture-based insect infestations. Earthquakes and other geophysical hazards may also occur in these environments.
deltas and estuaries and other low lying coastal areas Small islands	River basins, deltas and estuaries in low-lying areas are vulnerable to riverine floods, storm surges associated with tropical cyclones/typhoons and sea level rise; natural (and human-induced) subsidence resulting from sediment compaction and ground water extraction; liquefaction of soft sediments as result of earthquake ground shaking. Tsunami possible/likely on some coasts. Lowland agri-business and subsistence farming in these regions at significant risk. Small islands generally have land areas of less than 10,000km² in area, though Papua New Guinea and Timor with much larger land areas are commonly included in lists of small islands developing states. Low-lying islands are especially vulnerable to storm surge, tsunami, and sea-level rise and, frequently, coastal erosion, with coral reefs threatened by ocean warming in some areas. Sea level rise is likely to threaten the limited ground water resources. High islands often experience high rainfall intensities, frequent
Mountain ecosystems	landslides and tectonic environments in which landslides and earthquakes are not uncommon with (occasional) volcanic eruptions. Small islands may have low adaptive capacity and high adaptation costs relative to GDP. Accelerated glacial melting, rock falls/landslides and glacial lake outburst floods, leading to increased debris flows, riverbank erosion and floods and more extensive outwash plains and, possibly, more frequent wind erosion in intermontane valleys. Enhanced snow melt and fluctuating stream flows may produce seasonal floods and droughts. Melting of permafrost in some environments. Faunal and floral species migration. Earthquakes, landslides, and other geophysical hazards may also occur in these environments.
environments	Recently active volcanoes (erupted in last 10,000 years – see www.volcano.si.edu). Often fertile soils with intensive agriculture and landslides on steep slopes. Subject to earthquakes and volcanic eruptions including pyroclastic flows and Mow's flows/lahars. and/or gas emissions and occasionally widespread ash fall.

"NO MITIGATION MEASURES SCENARIO" CHECKLIST FOR PCCWHSST

Checklist 1: Scoping Checklist Part 1 - Questions on Project Characteristics

No.	Questions to be considered in		Which Characteristics of	
	Scoping		the Project Environment	
	Scoping		could be affected and how?	
			could be affected and now?	willy?
4 \A/:11			na of the Ducient invelve acti	iana which will cauca
	construction, operation or dec al changes in the locality (topo			
	Permanent or temporary	<u> </u>		
	change in land use, landcover			
	or topography including			
	increases in intensity of land			
	use?			
1.2	Clearance of existing land,			
	vegetation, and buildings?			
1.3	Creation of new land uses?			
1.4	Pre-construction investigations			
	e.g., boreholes,			
	soil testing?			
1.5	Construction works?			
	Demolition works?			
1.7	Temporary sites used for			
	construction works or housing			
	of construction workers?			
1.8	Above ground buildings,			
	structures, or earthworks			
	including linear structures, cut			
	and fill or excavations?			
1.9	Underground works including			
	mining or tunnelling?			
1.10	Reclamation works?			
1.11	Dredging?			
1.12	Coastal structures <i>e.g.</i>			
	seawalls, piers?			
1.13	Offshore structures?			
1.14	Production and manufacturing			
	processes?			
1.15	Facilities for storage of goods			
	or materials?			
1.16	Facilities for treatment or			
	disposal of solid wastes or			
	liquid effluents?			
1.17	Facilities for long term housing			
	of operational workers?			
	New road, rail or sea traffic			
	during construction or			
	operation?			
1.19	New road, rail, air, waterborne			
	or other transport			
	infrastructure including new or			
	altered routes and stations,			
	ports, airports etc.?			

20 Closure		ersion	of
existing t	ransport r	routes o	r

No.	Questions to be considered in Scoping	Yes/No/?	Which Characteristics of the Project Environment could be affected and how?	Is the effect likely to be significant? Why?
	infrastructure leading to changes in traffic movements?			
1.21	New or diverted transmission			
1.22	lines or pipelines? Impoundment, damming,			
1.22	Impoundment, damming, culverting, realignment, or other changes to the hydrology of watercourses or aquifers?			
1.23	Stream crossings?			
1.24	Abstraction or transfers of water from ground or surface waters?			
1.25	Changes in waterbodies or the land surface affecting drainage or run-off?			
1.26	Transport of personnel or materials for construction, operation or decommissioning?			
1.27	Long term dismantling or decommissioning or restoration works?			
1.28	Ongoing activity during decommissioning which could have an impact on the environment?			
1.29	Influx of people to an area in either temporarily or permanently?			
1.30	Introduction of alien species?			
1.31	Loss of native species or			
1.32	genetic diversity? Any other actions?			
	construction or operation of th	o Project	o natural recourses such as	land water
	als, or energy, especially any re			
2.1	Land especially undeveloped		The state of the s	
	or agricultural land?			
2.2	Water?			
2.3	Minerals?			
2.4	Aggregates?			
2.5	Forests and timber?			
2.6	Energy including electricity and fuels?			
2.7	Any other resources?			

3. Will the Project involve use, storage, transport, handling or production of substances or materials which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health? Which Characteristics of the Is the effect likely to be Questions to be considered in Yes/No/? Project Environment significant? Why? Scoping could be affected and how? 3.1 Will the project involve use of substances or materials which are hazardous or toxic to human health or the environment (flora, fauna, water supplies)? 3.2 Will the project result in changes in occurrence of disease or affect disease vectors (e.g., insect or water? borne diseases)? Will the project affect the 3.3 welfare of people e.g., by changing living conditions? Are there especially vulnerable groups of people who could be affected by the project e.g., hospital. patients, the elderly? Any other causes? 4. Will the Project produce solid wastes during construction or operation or decommissioning? Spoil, overburden, or my wastes? 4.2 Municipal waste (household and or commercial wastes)? 4.3 Hazardous or toxic wastes (including radioactive wastes)? industrial 4.4 Other process wastes? Surplus product? 4.5 4.6 Sewage sludge or other sludges from effluent treatment? 4.7 Construction demolition wastes? 4.8 Redundant machinery equipment? Contaminated soils or other 4.9 material? 4.10 Agricultural wastes? 4.11 Any other solid wastes?

No.	Questions to be considered in	Yes/No/?	Which Characteristics of	Is the effect likely to
	Scoping			be significant?
			could be affected and how?	Why?
	the Project release pollutants o	or any hazar	dous, toxic, or noxious subs	tances to air?
	Emissions from combustion of			
	fossil fuels from stationary or			
	mobile sources?			
5.2	Emissions from production			
	processes?			
5.3	Emissions from materials			
	handling including storage or			
	transport?			
	Emissions from construction			
	activities including plant and			
	equipment?			
	Dust or odors from handling of			
	materials including			
	construction materials,			
	sewage, and waste?			
	Emissions from incineration of			
	waste?			
	Emissions from burning of			
	waste in open air (e.g., slash material, construction debris)?			
	Emissions from any other			
	sources?			
	the Project cause noise and vil	hration or ro	loses of light host operay or	oloctromagnotic
radiatio		oration or re	lease of light, heat energy of	electromagnetic
	From operation of equipment			
	e.g., engines, ventilation plant,			
	crushers?			
	From industrial or similar			
	processes?			
	From construction or			
	demolition?			
6.4	From blasting or piling?			
	From construction or			
	operational traffic?			
6.6	From lighting or cooling			
	systems?			
	From sources of			
	electromagnetic radiation			
	(consider effects on nearby			
	sensitive equipment as wellas			
	people)?			
6.8	From any other sources?			

No.	Questions to be considered in Scoping	Yes/No/?	Which Characteristics of the Project Environment could be affected and how?	ls the effect likely to be significant? Why?
	the Project lead to risks of contourned or into sewers, surface wa			
7.1	From handling, storage, use or spillage of hazardous or toxic materials?	aters, groun	dwater, coastar waters, or tri	e sea :
7.2	From discharge of sewage or other effluents (whether treated or untreated) to water or the land?			
7.3	By deposition of pollutants emitted to air, onto the land or into water?			
7.4	From any other sources?			
7.5	Is there a risk of long-term build- up of pollutants in the environment from these? sources?			
	there be any risk of accidents human health or the environment		truction or operation of the F	Project which could
8.1	From explosions, spillages, fires etc. from storage, handling, use or production of hazardous or toxic substances?			
8.2	From events beyond the limits of normal environmental protection e.g., failure of pollution control systems?			
8.3	From any other causes?			
8.4	Could the project be affected by natural disasters causing environmental damage (e.g., floods, earthquakes, landslip, etc.)?			

amala	the Project result in social cha	nges, for ex	ample, in demography, trad	itional lifestyles,
	yment?	T	_	
9.1	Changes in population size,			
	age, structure, social groups			
	etc.?			
9.2	By resettlement of people or			
	demolition of homes or			
	communities or community			
	facilities e.g., schools,			
	hospitals, social facilities?			
9.3	Through in-migration of new			
0.0	residents or creation of new			
	communities?			
9.4	By placing increased			
9.4	demands on local facilities or			
	services e.g., housing,			
0.5	education, health?			
9.5	By creating jobs during			
	construction or operation or			
	causing the loss of jobs with			
	effects on unemployment			
	and the economy?			
9.6	Any other causes?			
	ion - Are there any other factors			
	pment which could lead to env			umulative impacts
	ther existing or planned activiti	es in the loc	cality?	
9.1	Will the project lead to pressure			
1				
	for consequential development			
	for consequential development which could have significant			
	for consequential development which could have significant impact on the environment e.g.,			
	for consequential development which could have significant impact on the environment e.g., more housing, new roads? new			
	for consequential development which could have significant impact on the environment e.g.,			
	for consequential development which could have significant impact on the environment e.g., more housing, new roads? new			
	for consequential development which could have significant impact on the environment e.g., more housing, new roads? new supporting industries or utilities,			
9.2	for consequential development which could have significant impact on the environment e.g., more housing, new roads? new supporting industries or utilities, etc.?			
9.2	for consequential development which could have significant impact on the environment e.g., more housing, new roads? new supporting industries or utilities, etc.?			
9.2	for consequential development which could have significant impact on the environment e.g., more housing, new roads? new supporting industries or utilities, etc.? Will the project lead to development of supporting			
9.2	for consequential development which could have significant impact on the environment e.g., more housing, new roads? new supporting industries or utilities, etc.? Will the project lead to development of supporting facilities, ancillary			
9.2	for consequential development which could have significant impact on the environment e.g., more housing, new roads? new supporting industries or utilities, etc.? Will the project lead to development of supporting facilities, ancillary development or development			
9.2	for consequential development which could have significant impact on the environment e.g., more housing, new roads? new supporting industries or utilities, etc.? Will the project lead to development of supporting facilities, ancillary development or development stimulated by the project which			
9.2	for consequential development which could have significant impact on the environment e.g., more housing, new roads? new supporting industries or utilities, etc.? Will the project lead to development of supporting facilities, ancillary development or development stimulated by the project which could have impact on the			
9.2	for consequential development which could have significant impact on the environment e.g., more housing, new roads? new supporting industries or utilities, etc.? Will the project lead to development of supporting facilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.?			
9.2	for consequential development which could have significant impact on the environment e.g., more housing, new roads? new supporting industries or utilities, etc.? Will the project lead to development of supporting facilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.? • supporting			
9.2	for consequential development which could have significant impact on the environment e.g., more housing, new roads? new supporting industries or utilities, etc.? Will the project lead to development of supporting facilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.? supporting infrastructure (roads, power			
9.2	for consequential development which could have significant impact on the environment e.g., more housing, new roads? new supporting industries or utilities, etc.? Will the project lead to development of supporting facilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.? supporting infrastructure (roads, power supply, waste, or wastewater			
9.2	for consequential development which could have significant impact on the environment e.g., more housing, new roads? new supporting industries or utilities, etc.? Will the project lead to development of supporting facilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.? • supporting infrastructure (roads, power supply, waste, or wastewater treatment, etc.)			
9.2	for consequential development which could have significant impact on the environment e.g., more housing, new roads? new supporting industries or utilities, etc.? Will the project lead to development of supporting facilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.? • supporting infrastructure (roads, power supply, waste, or wastewater treatment, etc.) • housing development			
9.2	for consequential development which could have significant impact on the environment e.g., more housing, new roads? new supporting industries or utilities, etc.? Will the project lead to development of supporting facilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.? • supporting infrastructure (roads, power supply, waste, or wastewater treatment, etc.)			

No.	Questions to be considered in Scoping		Is the effect likely to be significant? Why?
9.3	Will the project lead to after- use of the site which could have an impact on the environment?		
9.4	Will the project set a? precedent for later developments?		
9.5	Will the project have cumulative effects due to proximity to other existing or planned projects with similar effects?		

Checklist 2: Scoping Checklist Part 2 - Characteristics of the Project Environment (Environmental Sensitivity)

Question - Are there features of the local environment on or around the Project location which could be affected by the Project?

- Areas which are protected under international or national or local legislation for their ecological, landscape, cultural or other value, which could be affected by the project?
 - Other areas which are important or sensitive for reasons of their ecology e.g.
 - Wetlands.
 - · Watercourses or other waterbodies,
 - the coastal zone.
 - · mountains,
 - · forests or woodlands
- Areas used by protected, important or sensitive species of fauna or flora e.g., for breeding, nesting, foraging, resting, overwintering, migration, which could be affected by the project?
- Inland, coastal, marine, or underground waters?
- Areas or features of high landscape or scenic value?
- Routes or facilities used by the public for access to recreation or other facilities?
- Transport routes which are susceptible to congestion or which cause environmental problems?
- Areas or features of historic or cultural importance?

Question - Is the Project in a location where it is likely to be highly visible to many people?	
Question - Is the Project located in a previously	
undeveloped area where there will be loss of	
greenfield land?	
O .	
Question - Are there existing land uses on or	
around the Project location which could be	
affected by the Project? For example:	
 Homes, gardens, other private property, 	
• Industry,	
Commerce,	
 Recreation, 	
 public open space, 	
community facilities,	
agriculture,	
• forestry,	
• tourism,	
mining or quarrying	
Question - Are there any plans for future land	
uses on or around the location which could be	
affected by the Project?	
Question - Are there any areas on or around the	
location which are densely populated or built-	
up, which could be affected by the Project?	
Question - Are there any areas on or around the	
location which are occupied by sensitive land	
uses which could be affected by the Project?	
 hospitals, 	
 schools, 	
 places of worship, 	
community facilities	
Question - Are there any areas on or around the	
location which contain important, high quality or	
scarce resources which could be affected by the	
Project? For example:	
• groundwater resources,	
• surface waters,	
• forestry,	
agriculture, figh arise.	
• fisheries,	
• tourism,	
• minerals.	
Question - Are there any areas on or around the	
location of the Project which are already subject	
to pollution or environmental damage	
e.g., where existing legal environmental	
standards are exceeded, which could be	
affected by the project?	
Question - Is the Project location susceptible to	
-	

earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions e.g., temperature inversions, fogs, severe winds, which could cause the project to present environmental problems?	
Question - Is the Project likely to affect the	
physical condition of any environmental media?	
 The atmospheric environment including 	
microclimate and local and larger scale climatic	
conditions?	
 Water – e.g., quantities, flows or levels of rivers, 	
lakes, groundwater. Estuaries, coastal waters, or	
the sea?	
 Soils – e.g., quantities, depths, humidity, stability, 	
or erodibility of soils?	
 Geological and ground conditions? 	
 Question - Are releases from the Project likely to have effects on the quality of any environmental media? Local air quality? Global air quality including climate change and ozone depletion Water quality – rivers, lakes, groundwater. Estuaries, coastal waters, or the sea? Nutrient status and eutrophication of waters? Acidification of soils or waters? Soils Noise? Temperature, light, or electromagnetic radiation including electrical interference? Productivity of natural or agricultural systems? 	
Question - Is the Project likely to affect the	
availability or scarcity of any resources either	
locally or globally?	
• Fossil fuels?	
• Water?	
• Minerals and aggregates?	
• Timber?	
Other non-renewable resources?	
• Infrastructure capacity in the locality - water,	
sewerage, power generation and transmission,	
telecommunications,	
waste disposal roads, rail?	

Question - Is the Project likely to affect human or community health or welfare? The quality or toxicity of air, water, foodstuffs, and other products consumed by humans? Morbidity or mortality of individuals, communities, or populations by exposure to pollution? Occurrence or distribution of disease vectors including insects? Vulnerability of individuals, communities, or populations to disease? Individuals' sense of personal security? Community cohesion and identity? Cultural identity and associations? Minority rights? Housing conditions?

Checklist 3: Significance of Impacts

Economic conditions?Social institutions?

Employment and quality of employment?

necklist 3: Significance of impacts	
Questions to be Considered	
1. Will there be a large change in environmental	
conditions?	
2. Will new features be out-of-scale with the existing	
environment?	
3. Will the effect be unusual in the area or particularly	
complex?	
4. Will the effect extend over a large area?	
5. Will there be any potential for transboundary impact?	
6. Will many people be affected?	
7. Will many receptors of other types (fauna and flora,	
businesses, facilities) be affected?	
8. Will valuable or scarce features or resources be	
affected?	
9. Is there a risk that environmental standards will be	
breached?	
10. Is there a risk that protected sites, areas, features	
will be affected?	
11. Is there a high probability of the effect occurring?	
12. Will the effect continue for a long time?	
13. Will the effect be permanent rather than temporary?	
14. Will the impact be continuous rather than	
intermittent?	
15. If it is intermittent will it be frequent rather than rare?	
16. Will the impact be irreversible?	
17. Will it be difficult to avoid, or reduce or repair or	
compensate for the effect?	

RELEVANT ENVIRONMENTAL QUALITY STANDARDS

(Note: International guidelines are presented, where applicable, to show comparison and will be useful if evaluation of quality monitoring results includes checking of how project's environmental performance fare with international standards.)

Table 1: Ambient Air Quality Standards

		Nepal's		lity Guidelines /m³)	Standard values to be followed by
Parameter	Averaging Period*	Ambient Air Quality Standard, 2003**(µg/m³)	Global Update^ 2005	Second Edition ^^ 2000	PCCWHSST whichever are applicable^^^ (µg/m³)
TSP	Annual	-	-	-	-
101	24-hour	230	-	-	230
PM ₁₀	Annual	-	20	-	20
FIVI10	24-hour	120	50	-	50
PM _{2.5}	1-year	-	10	-	10
F IVI2.5	24-hour	-	25	-	25
	Annual	50	-	-	50
SO ₂	24-hour	70	20	-	20
	10-minute	-	500	-	500
	1-year	40	40	-	40
NO ₂	24-hour	80	-	-	80
	1-hour	-	200	-	200
60	8-hour	10,000	-	10,000	10,000
СО	15-minute	100,000	-	100,000	100,000
Pb	1-year	0.5	-	0.5	0.5
Benzene	1-year	20	-	-	20

^{*} Due to short term duration of civil works, the shortest period will be more practical to use.

Table 2: Noise Level Standards

Table 2. Noise Level Stalldards							
Receptor/ Source	National Noise Standard Guidelines, 2012* (dB)		WHO Guidelines Noise Levels Me Out of Doors** (One Hour LA _q in	easured?	Standard values to be followed by PCCWHSST, whichever are applicable		
	Day	Night	07:00 - 22:00	22:00 - 07:00	(dB)		
Industrial area	75	70	70	70	70 for daytime 70 for nighttime		
Commercial area	65	55	70		65 for daytime 55 for nighttime		
Rural residential area	45	40	55	45	45 for daytime 40 for nighttime		
Urban residential area	55	50	55	45	55 for daytime 45 for nighttime		

^{**} as implementing rules on ambient air quality standards under the Environmental Protection Act, 1997. Summary available from Environment Statistics of Nepal 2011, Government of Nepal, National Planning Commission Secretariat, Central Bureau of Statistics, Kathmandu, Nepal.

[^] Source: Environmental, Health and Safety General Guidelines, 2007. International Finance Corporation, World Bank Group.

^{^^} Source: Air Quality Guidelines for Europe, Second Edition, 2000; WHO Regional Office for Europe, Copenhagen ^^^ Subject to capacity of executing agency to do the test, including the availability of facilities to do the test in the country.

Receptor/ Source	Standard Guidelines, 2012*		WHO Guidelines Levels Measured Out of Doors** (One Hour LA _q in	?	Standard values to be followed by PCCWHSST , whichever are applicable (dB)
	Day	Night	07:00 - 22:00	22:00 - 07:00	
Mixed residential	63	55	55	45	55 for daytime
area					45 for nighttime
Quiet area	50	40	-	-	50 for daytime
					40 for nighttime
Water Pump	65		-		65
Diesel generator	90		-		90

Table 3: National Drinking Water Quality Standards, 2006

	National Drinking	g Water Quality	Standards, 2006*	who	Standard
Group	Parameter	Unit	Max. Concentration Limits	Guidelines for Drinking- Water Quality, 4 th Edition, 2011**	values to be followed by PCCWHSST., whichever are applicable^^^
	Turbidity	NTU	5(10) ***	-	5(10) ***
	рН		6.5 – 8.5	none	6.5 – 8.5
	Color	TCU	5 (15)	none	5 (15)
	Taste and Odor		Would not be objectionable	-	Would not be objectionable
	TDS	mg/l	1000	-	1000
	Electrical Conductivity	µc/cm	1500	-	1500
Dhusiaal	Iron	mg/l	0.3 (3)	-	0.3 (3)
Physical	Manganese	mg/l	0.2	-	0.2
	Arsenic	mg/l	0.05	0.01	0.01
	Cadmium	mg/l	0.003	0.003	Same
	Chromium	mg/l	0.05	0.05	0.05
	Cyanide	mg/l	0.07	none	0.07
	Fluoride	mg/l	0.5 – 1.5 ^	1.5	0.5 – 1.5 ^
	Lead	mg/l	0.01	0.01	0.01
	Ammonia	mg/l	1.5	none established	1.5
	Chloride	mg/l	250	none established	250
	Sulphate	mg/l	250	none	250
	Nitrate	mg/l	50	50	50
	Copper	mg/l	1	2	1
Chemical	Total Hardness	mg/l	500	-	500
Cilcillical	Calcium	mg/l	200	-	200
	Zinc	mg/l	3	none established	3
	Mercury	mg/l	0.001	0.006	0.001
	Aluminum	mg/l	0.2	none established	0.2

^{*} as implementing rules on noise standard guidelines under Environmental Protection Act, 1997.

** Guidelines for Community Noise, WHO, 1999.Source: Environmental, Health and Safety General Guidelines, 2007. International Finance Corporation, World Bank Group.

	National Drinkin	g Water Quality	Standards, 2006*	WHO	Standard	
Group	Parameter	Unit	Max. Concentration Limits	Guidelines for Drinking- Water Quality, 4 th Edition, 2011**	values to be followed by PCCWHSST, whichever are applicable^^^	
	Residual Chlorine	mg/l	0.1 - 0.2	5 ^^	0.1 - 0.2	
	E-coli	MPN/100ml	0	Must not be	0	
Micro Germs	Total Coliform	MPN/100ml	0 in 95%of samples taken	detectable in any 100 ml sample	0 in 95%of samples taken	

as the implementing rules on drinking water quality standards under Water Resources Act, 1992

** Health-based guideline values

*** Figures in parenthesis are upper range of the standards recommended.

^ These standards indicate the maximum and minimum limits.

^^ From WHO (2003) Chlorine in Drinking-water, which states that this value is conservative.

^^^ Subject to capacity of executing agency to do the test, including the availability of facilities to do the test in the country

OUTLINE OF AN ADB INITIAL ENVIRONMENTAL EXAMINATION REPORT

This outline is part of the safeguard requirements. An initial environmental examination (IEE) report is required for all environment category B projects. Its level of detail and comprehensiveness is commensurate to the significance of potential environmental impacts and risks. A typical IEE may have a narrower scope than an environmental impact assessment (EIA), depending on the nature of the project. The substantive aspects of this outline will guide the preparation of IEE reports, although not necessarily in the order shown.

Executive Summary

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

A. Introduction

- **B. Policy, Legal, and Administrative Framework** –discusses the national and local legal and institutional frameworks within which the environmental assessment is carried out. It also identifies project-relevant international environmental agreements to which the country is a party. Description of PCCWHSST describes (i) PCCWHSST; (ii) its major components; and (iii) 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.
- I. **Description of the Environment (Baseline Data) –** 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.
- II. Anticipated Environmental Impacts and Mitigation Measures (i) 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, and to the extent possible; (ii) identifies mitigation measures and any residual negative impacts that cannot be mitigated; (iii) explores opportunities for enhancement; (iv) 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 (v) examines global, trans-boundary, and cumulative impacts as appropriate.
- III. Information Disclosure, Consultation, and Participation (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.

- IV. **Grievance Redress Mechanism –** describes the grievance redress framework (both informal and formal channels), setting out the time frame and mechanisms for resolving complaints about environmental performance.
- V. **Environmental Management Plan –** 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 to the project's impacts and risks):
- A. 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 people, or emergency response) required for the project.
- B. 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 mitigation measures and documents the progress and results of mitigation.
- C. 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
- D. 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.

Conclusion and Recommendation – provides the conclusions drawn from the assessment and provides recommendations.

PROPOSED FORMAT FOR ATTENDANCE SHEET AND NOTES OF CONSULTATION

(Component/Package Title)

Prevention and Control of COVID-19 through WASH and Health initiatives in Secondary and Small Towns (PCCWHSST) Project

ADB Grant: JFPR Attendance Sheet

Date:		
Venue/Location	on:	
Consulted Gro	oup:	
Consulting	Group:	

No	Name	Address	Age		nder	Н	d of H	Ethnicity		Represen	tation	
				М	F	Y	N		Resident	Business Owner	Youth	Others*
1												
2												
3												
4												

^{*} Examples: Rural Municipality/Urban Municipality, Ward Council, NGOs, Schools, Churches, Women's Groups, other Civil Society Groups, etc.

(Subproject Title)

Prevention and Control of COVID-19 through WASH and Health initiatives in Secondary and Small Towns (PCCWHSST) Project

ADB Grant: JFPR

E-2: Notes of Consultations

Date:

Venue/Location :
Consulted Group:
Consulting Group:

No. of Participants: Total: Female: Male:

Discussion, Responses, Outcomes:

No.	Name		Gender	Question, Response, Outcome
		M	F	
1				
2				
3				
4				

SAMPLE GRIEVANCE REDRESS FORM

(To be available in Nepalese and English)

Contact Information/ Personal Details

Date

The Prevention and Control of COVID-19 through WASH and Health initiatives in Secondary and Small Towns (PCCWHSST) Project welcomes complaints, suggestions, queries, and comments regarding project implementation. We encourage persons with grievance to provide their name and contact information to enable us to get in touch with you for clarification and feedback. Shall you choose to include your personal details but want that information to remain confidential, please inform us by writing/typing *(CONFIDENTIAL)* above your name. Thank you.

Place of registration

name			Gender	^iviale *Female	Age	
Home Address						
Place						
Phone no.						
E-mail						
your grievance bel		·	ovide the	details (who	o, what, wh	nere and how) of
	chment/note/letter, please t us to reach you for fee		odate on	your comm	ent/grieva	ance?
FOR OFFICIAL						
Registered By: (N	lame of Official registerir	ng grievance))			
Mode of Commu Note/Letter E-mail Verbal/Telephonic						
Reviewed by: (Na	mes/Positions of Official	(s) reviewing	grievanc	e)		
Action Taken:						
Whether Action T	aken Disclosed:	Ye	s No			
Means of Disclos	ure:					

OUTLINE FOR ENVIRONMENTAL SAFEGUARDS IMPLEMENTATION MONITORING

Environmental Safeguard

-Brief introductory paras on IEE and EMP implementation and monitoring status

Compliance Status with the Environment Safeguards Provisions

-The Environmental Management Plans with respect to the guidelines defined in the Initial Environmental Examination (IEE) Report.

Environment Safeguards Status checklist of reporting period

Activity	Yes/No	Remarks (If Answer Is No)
A. For packages under bidding		
IEEs cleared by ADB?		
IEEs/EMPs included in the bidding		
Are there changes in the scope of work of the cleared IEEs?		
 Core labor standards and environment, health, and safety (EHS) incorporated in Section 8 of the bid documents? 		
 BOQ line item includes EMP requirements? 		
IEE disclosed in form and language understood by stakeholders and affected persons (AD-)2		
For packages with contracts awarded (no works yet)		
All statutory clearances/permits obtained?		
• Each contractor appointed EHS and/or safety officer?		
 Baseline regarding condition of roads, agricultural land, and other infrastructure prior to start of transportation of materials and construction has been recorded? 		
 Contractor has established tie-ups with local hospitals/clinics for emergencies onsite? 		
For DBO packages, detailed design completed and updated IEE submitted to ADB?		
For civil works packages, site-specific EMP submitted to ADB?		
For packages with contracts awarded and works on-	going	
Contractors have appointed EHS and/or safety officer onsite per subproject package?		
Site-specific EMP posted onsite?		
Contractors' records of accidents / incidents submitted to PMU monthly?		
 Contractors provided PMU with a notification/incident report of any accident(s) within 24 hours of its occurrence? 		
Reports of complaints/grievances reported monthly to PMU?		
Records of information disclosure/consultations submitted by PIUs to PMU		
Records of site inspection by PIU submitted to PMU monthly?		

Status of Site-Specific Environmental Management Plan (SEMP)

-Brief on preparation and monitoring of the Site specific EMP

Status of SEMP

SN	PKG. Nos.	Project	Status of SEMP

Status of Environmental Officer at Project Implementation Level

Environment Safeguard Team at Different Level for Implementation of PCCWHSST

	Name	Designation/Office	Email Address	Contact No.
•	PMO			
•	RPMO			
•	Consultants			

Status of EHS personal at Site during Project Construction

Designated EHS Focal person for monitoring of EMP at Contractor Level

S.N.	Project Towns	Name of the personnel	Position

Status of Environmental Assessment Report of Different Components/Packages under PCCWHSST

Status of Environmental Assessment and TOR of Different Packages/Components

S. N	Package	Project name	Status of	Environmental Assessment
	Nos		As per ADB	As per Government

Compliance Status with the Environmental Management Plan

Status of Environmental Safeguards during Planning Stage

S	Pk g. No s	Name of Component/	Environmen tal screening is carried out? (Yes or No)	Environm ent category of the package/c omponent	IEE with EMP is prepared (Yes/No)	approved IEE with	Governmen t approved IEE with EMP	Safeguard monitoring and coordination mechanism established	GRC is establishe d (Yes/No)	EMP cost in is included in BOQ as an individual item	Remarks

Summary of Implementation of Environmental Management Plan and Environmental Safeguards Monitoring

			Eastern Region												n Re								Cen	Y No Y No					
S.	Indicator	Activities		ckag no.																									
14			Υ	No	Υ	No	Υ	No	Υ	No	Υ	No	Υ	No	Υ	N o	Y	No	N o	Υ	No	Υ	No	Υ	No	Υ	No	Υ	No
1	Physical improvements	Road Construction Rehabilitation																											
2	Protection/ stabilization	Retaining wall Gabion wall																											
3	Greenery Management	Conservation Promotion																											
		Good Accommodation																											
4	Campsite management	Service Facility Waste Management																											
		Informatory Signage																											
	Workforce management	Workers Record Gender rights																											
5		Child labor Local manpower																											

		Code of conduct														
		Records of accidents														
		Hospital MoU														
	Occupational	Use of PPEs														
6	Occupational Health and	Insurance														
0	Safety	First Aid facility														
	Salety	COVID Response Plan														
		Safety messages Site														
	Environmente	Noise level														
7	Environmenta I monitoring	Air quality														
	i monitoring	Water quality														

Generic EMP for Multipurpose Shelters and Other Small Civil Works

The purpose of this generic EMP is to ensure that the project implementation activities are undertaken in a responsible, non-detrimental manner, with the objectives of:

- (i) providing a proactive, feasible and practical working tool to enable the measurement and monitoring of environmental performance on-site.
- (ii) guiding and controlling the implementation of findings and recommendations of the environmental due diligence conducted for the project.
- (iii) detailing specific actions deemed necessary to assist in mitigating the environmental impact of the project; and
- (iv) ensuring that environmental, health and safety recommendations are complied with

. This EARF including this generic EMP, together with the IEEs/DDRs, will be included in the bid documents and will serve as the Contractor's guide in designing site-specific EHS management plans. Non-compliance with, or any deviation from these documents will require a justification or explanation to support the deviation, and a corrective action, as necessary.

ANTICIPATED ENVIRONMENTAL IMPACTS AND RISKS

The anticipated impacts of proposed civil works include:

- (a) Air pollution from dust emissions from on-site excavation and emission from heavy equipment and construction vehicles used for construction and construction activities.
- (b) Water pollution from run-off or soil erosion from stockpiled construction materials, wastewaterfrom domestic sewage of construction workers, and accidental spillage of oil and other lubricants from washing of construction equipment.
- (c) Noise pollution and vibration from construction activities that may disturb nearby communities.
- (d) Generation of solid wastes from construction workers and construction and demolition
- (e) Generation sewage waste during construction and operation phase
- (f) Generation of medical waste during construction and operation phase
- (g) Occupational health and safety risks to construction workers.
- (h) Community health and safety impacts, primarily because of exposure to noise, smell ofpaints and solvents and dangerous excavated work areas.

CONTRACTOR OBLIGATIONS

Each Contractor is required to take the following measures to address potential impacts and risksto environment, health and safety of workers and communities:

- (i) Appointment of a qualified environment, health, and safety specialist to supervise construction works.
- (ii) The execution of the works and all associated operations on the work sites or offsite are carried- out in conformity with statutory and regulatory environmental requirements of the Government of Nepaland the ADB SPS 2009.
- (iii) All measures and precautions are taken to avoid any nuisance or disturbance arising from the execution of construction works and their related activities. This will, wherever possible, be achieved by suppression of the nuisance (or unwanted effects to the physical environment and people) at source rather than abatement of the nuisance once generated.

- (iv) Compensation is paid for any damage, loss, spoilage, or disturbance of the properties and healthof affected people during execution of the construction works as specified in the Bid Documents.
- (v) Local skilled and unskilled labor is recruited to increase the direct benefits in the project area(s) and to minimize potential environmental issues related to construction camps, disease transmission and socio-cultural disputes.
- (vi) Ensure that the applicable national laws and regulations are applied to the contractor's personnel, including laws related to their employment, health, safety, and welfare during the construction of the isolation facilities. More specifically, each contractor shall: (a) comply with theBorrower's applicable labor law and regulations and incorporate applicable workplace occupational safety norms; (b) do not use child labor; (c) do not discriminate workers in respect of employment and occupation; (d) do not use forced labor; (e) allow freedom of association and effectively recognize the right to collective bargaining.
- (vii) Establish a simple system to receive, register, and address community concerns and complaints. Contact number of the contactor including name, position and telephone number will be shared with WUSC and municipalities.
- (viii) Demonstrate how the impacts associated with the construction works as defined in Table 1 below æ complied with. For that purpose, conduct weekly monitoring of compliance with this generic EMP, and include section in the monthly report to the PMO/RPMO. The report format defined in Appendix 1 shall be used for monthly reporting to the EA.

The following activities are strictly prohibited on or near the project site:

- (a) Cutting of trees for any reason outside the approved construction area.
- (b) Hunting, fishing, wildlife capture, or plant collection.
- (c) Use of unapproved toxic materials, including lead-based paints, asbestoscontainingmaterials.
- (d) Deposition of chemicals, sanitary wastewater, spoil, waste oil, and concrete agitatorwashings in water courses.
- (e) Disturbance to anything with architectural or historical value.
- (f) Employment of workers under the age of 16.
- (g) Discrimination regarding recruitment, wages, and compensation.

Table A9.1: Generic Environmental Management Plan During Pre-Construction, Construction and Operation Phase

Project Phases/ Environmental Aspects	Potential impacts/Issues	Mitigation Measure	1.Responsible for Implementation 2. Responsible for Supervision	Monitoring	Source of fund for Implementation
Design and pre-cons	struction phase				
Facility design	Failure to comply with Government of Nepal procedures, codes, and administrative orders for Multipurpose community building design	Ensure compliance with relestandards for multipurpo based on the requirements Building Codes (NBC), a orders, circulars, and guide Building Act 2055	se building <mark>2. PMO</mark> of National dministrative	Copies of necessary approvals/ certifications	PMO's Budget
Facility design	Non-conformance with the EARF, Project Administration Manual (PAM) requirements on environmental assessment, planning, and management	including EMPs based on and submission to ADB for a bidding and contract award	pproval prior	IEEs approved by ADB	PMO's Budget
Permits/Licenses/ Clearances	Failure to secure necessary permits and clearances prior to construction	Secure the building perr permit, electrical permit, permit, and other clearand local government prior construction works	tree-cutting2. PMO/RPMO es from the to start of	Copies of permits, licenses, and clearances	Contractor' Cost
Environmental and Social Issues	Complaints, Concerns	Establish and dissemina grievance redress mechanis Share contractor contact WUSC and Municipality	sm (GRM) 2. ADB	Notification	PMO's/RPMO/ WUSC and Municipalities Budget
EHS capacity	Inadequate Environment, Health and Safety (EHS) management capacity	Contractor to designate EHS Training/Induction of Con Officers and workers	S Officer. 1. Contractor tractor EHS2. PMO/RPMO	Designated EHS officer/s Training Records	Contractor's Cost
Site-specific EMP and OHS Plan Preparation	Non-mitigation of site-specific EHS impacts			SEMPs	Contractor's Cost
COVID-19 risks during project construction	Spread of infection which causes serious symptoms like difficulty in breathing, chest	Taking cognizance of situati mobilization, the Contrudentake a COVID risk as	actor shall <mark>2. PMO/RPMO</mark>	Records/Copy/ie s of approved COVID- 19	Contractor's Cost

	pain and loss of speech or movement. If not treated it will lead to death		sponse and nagement n
Stakeholder awareness	Complaints/grievances	Coordinate/consult with local 1. Contractor Recommunity/affected 2. PMO/RPMO stall persons/stakeholders regarding coordinate/consult with local 1. Contractor Recommunity/affected coordinate/consult with local 1. Contractor Recommunity/affected consult with local 1. Contractor Recommunity/affected consult with local 1. Contractor Recommunity/affected consult with local 1. Contractor Recommunity/affected community/affected c	cords of Contractor's Cost ordination/ nsultations
Construction phas			
Monitoring and Reporting	Failure to adequately implement the EMP	approval of PMO prior to construction 2. PMO/RPMO and activities	pies of SEMP Contractor's d approval. d monthly orts
		2. PMO insp	pies of site PMO/RPMO's pection Budget orts
Site-preparation	Illegal cutting of trees	 No cutting of trees for any reason outside 1.Contractor of the approved construction area. Conduct compensatory tree planting in accordance with the regulations of the 	
Water and soil pollution	Leakage of spills of fuel and lubricants that may contaminate soil, surface water and groundwater	Prevent pollution of soil, surface water/ 1. Contractor Vis	ual Contractor's pection/photo Cost

		 and refueling area will prevent spillage of fuel, oil, and hazardous materials to seep into soil. Oil traps shall be provided in the maintenance and service areas. Fuel storage and refilling areas located > 50 m from water sources and protected by temporary bunds to contain spills. 	
Air quality	Concentration of machinery working in one area plus haulage vehicle traffic may result in local areas of poor air quality/complaints	 Equipment will be maintained to a high 1. Contractor standard to ensure efficient running and 2. PMO/RPMO fuel-burning. High-horsepower equipment will be provided with tail gas purifiers. All vehicle/machinery emissions will be following relevant emission standards. Ensure compliance with National Ambient Air Quality Standards, IFC/WB EHS Guidelines on Air Quality 	Machine/vehicle Contractor's emission testing Cost results/Visual inspection/Photo s/Complaints/Air quality monitoring results (as applicable)
Dust	Caused by earthmoving and construction haulage traffic can cause poor air quality and nuisance to householders and farmers.	 Material stockpiles and concrete mixing 1. Contractor equipment will be equipped with dust 2. PMO/RPMO shrouds. Regular water spraying when dust is observed in construction sites, construction roads, and stockpiled material. Maintenance of driving surfaces will be standard site management practice. Vehicles carrying soil, sand, or other fine materials to and from the construction sites will be covered. 	Visual Contractor's inspection/photo S/Complaints/Air quality monitoring results (as applicable)
Noise impacts on sensitive receptor	Noise caused by the concentration of machinery working in one area, plus haulage vehicles, can cause a range of impacts from nuisance to health problems. Noise could disrupt ongoing medical services	 Construction after 10 pm shall be strictly 1. Contractor prohibited. During daytime construction, the contractor will ensure that temporary anti-noise barriers will be installed to shield sensitive receptors. 	Visual Contractor's inspection/photo s/Complaints/ Noise level monitoring records (as applicable)
Water Quality	Pollution of local water courses through sediment	Construction site drainage will ensure 1. Contractor any rainfall will be diverted to a holding 2. PMO/RPMO pond or suitable land to prevent localized flooding and sedimentation of surface water.	Visual Contractor's inspection/photo Cost s

Water Resources	Impact on existing water resources	The required water for the construction 1. Contractor will be sourced from municipal water 2. PMO/RPMO supply or through mobile water tankers. In absence of the water supply, the contractor shall obtain necessary clearance from the competent authority for utilizing surface/groundwater.	List of water Contractor's sources and cost permits/clearanc es
Construction waste and spoil	Unauthorized or careless storage and disposal of waste can damage property, vegetation, agricultural land, and block natural drainage.	 Minimize spoil disposal by balancing cut 1. Contractor and fill wherever possible. Manage spoil to reclaim land with proper landscaping and vegetation. Temporary storage of spoil waste shall be located away from the rivers, streams, and waterway. Construction waste will be stored securely to prevent escape in containers. Final disposal site of waste and spoil will be in a site approved by the district and provincial authorities. 	Visual Contractor's inspection/photo Cost s
Waste from workers	The construction workforce will generate domestic wastewater and garbage (food wastes, paper, and other solid waste including disposable protective personal masks) which causes impacts if poorly handled and disposed	Include domestic wastewater management in SEMPs following laws and regulations of the Government of Nepal, and/or, IFC/WB EHS Guidelines Domestic wastewater discharges must comply with national regulations and/or IFC/WB EHS guidelines on permitting and effluent quality. Provide sufficient waste bins at strategic locations and ensure that: They are protected from birds and vermin. Emptied regularly to prevent overflow. Disposed of in local disposal site as approved by local authorities. Handle and dispose of used personal protective masks in accordance with COVID-19 guidelines from the Government of Nepal, WHO, ILO and IFC/WB.	Visual Contractor's inspection/photo Cost s/Discharge permits/effluent quality test results (as applicable)

Erosion impacts	Facility construction may require earthworks which will leave surfaces liable to erosion, especially in heavy rain periods.	Erosion control includes: Limiting construction and material 2. PMO/RPMO handling during periods of rains and high winds Stabilizing all cut slopes, embankments, and other erosion-prone working areas while works are going on All earthwork disturbance areas shall be stabilized within 30 days after earthworks have been completed.	Visual Contractor's inspection/photo Cost s
Community health and safety	Construction work poses safety hazards and threats to nearby residents and passers-by. Excavations, loss of access and movements of large machinery and vehicles potentially impact on existing utilities and community safety	Community health and safety will be safeguarded by: Planning construction activities to minimize disturbances to residents, passers-by, and utilities. Temporary land occupation will be planned well ahead of construction to minimize its impact and after consultation with the affected community. Land reinstated to its original condition after construction. Implementing safety measures around the construction sites to protect the public, including warning signs to alert the public to potential safety hazards, barriers to prevent public access to construction sites, and a watch person, where necessary.	Visual Contractor's inspection/photo s/Records of public consultation
of vehicle and equipment for construction)	Increased motorized vehicle movement including heavy goods vehicles to and from the site during construction may increase road safety risks for residents and passers-by. Workers are subject to	 Ensure that drivers of all vehicles strictly 1. Contractor follow road rules and maintain good road 2. PMO/RPMO safety standards. Deliveries of construction materials to the site by heavy good vehicles will be properly supervised by use of banks men / traffic marshals. Contractors shall ensure that: 	Road safety plan/Journey Management Plan Safety records (motor vehicle incidents) and corrective actions Copy of Site Contractor's
and Safety	safety hazards while operating and/or moving around machinery, as well as dust and noise impacts from extended exposures at the work site.	 All reasonable steps are taken to protect2. PMO/RPMO any person on the site from health and safety risks. Construction sites are safe and healthy workplaces (e.g., provision of minimum required facilities of space, ventilation, sanitation, light, and safe drinking water 	OHS Plan/ Cost Emergency Preparedness and Response Plan/ OHS Training Records

		 in construction camps). Only certified and tested machineries and equipment is used. Adequate training or instruction for occupational health and safety is provided. Adequate supervision of safe work systems is implemented. Means of access to and exit from the site are without risk to health and safety. A first aid kit will be available on each construction site and adequate personal protective equipment are provided. All member of staff is responsible for first aid and is aware of local health care facilities 		(including toolbox meetings)/ Visual inspection/Photo s/Noise level monitoring results/Drinking water quality test results	
Employment opportunity	Local people employed in project activities	Contractors are encouraged to use local labor, wherever possible	1. Contractor 2. PMO/RPMO	Employment Records	Contractor's Cost
Influx of migrant workers	Health and safety risks Chances of spread of sexually transmittable diseases like HIV / AIDS		1. Contractor 2. PMO/RPMO		Contractor's Cost
COVID-19 Risks	Spread of infection which causes serious symptoms like difficulty in breathing, chest pain and loss of speech or movement. If not treated it will lead to death	Implementation of CR&MP	1. Contractor 2. PMO/RPMO	Weekly reports/Site Inspection/Phot os	Contractor's Cost
Human health and environmental pollution – Site Hand Over	Hazardous waste materials, unprotected latrines and organic waste remaining after construction will pose a risk to human health and safety.	 All unused or discarded construction materials will be removed from the site before hand-over. Surroundings will be landscaped to reinstate original site conditions. All temporary dwellings, cook houses and latrines will be removed upon 	2. PMO/RPMO	Visual inspection/photo s	Contractor's Cost

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		completion of the construction and the site cleaned.
Construction completion	Facility does not conform to approved plans and specifications; Improper site clean-up and restoration	 Submit a completion report together with 1. Contractor as-built drawings to the WUSC/Municipality/PMO Ensure proper restoration of disturbed areas and clean-up of site. Visual inspection/photo cost inspection/photo s
Operation Phase		
Maintenance of public toilets and multipurpose shelters	Unsanitary or dilapidation of/damages to facilities which may result in health, sanitation and/or safety problems	 Regular/periodic cleaning and 1. Visual maintenance of public toilets and WUSCs/Municipal inspections/phot palities' Budget multipurpose shelters lities os Disposal of operation and maintenance wastes in accordance with government regulations
	Generation of biomedical wastes	Handle and dispose of biomedical 1. Visual WUSC's/Municipal wastes in accordance with COVID-19WUSCs/Municipal inspections/phot palities' Budget guidelines from the Government of lities os/Records of Nepal, WHO, ILO and IFC/WB. 2. PMO/RPMO disposal

Appendix 1: Contractor's EHS Progress Monitoring Report Contract (Insert Contract ref/number)

(Insert name of Contractor's Environmental Health and Safety Officer) Completed by

Company name (Insert name of Company)

Monthly		
DD-MM-YY	Reporting Period	MM/YY – MM/YY
•		
	DD-MM-YY • XX	DD-MM-YY Reporting Period • XX

Progress with EHS Activities this month							
Recruitment of constructionworkers Compliance with labor laws andregulations	 Total number of construction workers as of DD-MM-YY: XX women, xxx men; xxx%unskilled labor Number of new recruitments in reporting period: xxx women, xxx men We confirm the following: Adherence to the International Labor Organization (ILO) Core LaborStandards Compliance with Labor Code of the Government of Nepal 						
Trainings Undertaken – all training related to EHS	EHS Training Provided: Participants: Who provided the training? New construction PPE issued this month:						
Personal Protective Equipment	Number of incidents of workers not wearing adequate construction PPE:						
Emergency Response							
Use of site accident Book	Accidents reported: Description and Actions taken: Outcome:						

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(Contractor)		WUSC/Municipality/RPMO Staff)	
Prepared by:		Verified by:	(authorized
Describe EMP/SEMP Complia	nce Issues, Problems o	or Other issues PMO should be aware of	
	complaints:		
	complaint:Outstanding		
	Action taken for each		
	Number of complaints:		
Concerns and Complaints			
	Impact of incident:		
Other incidents	Actions taken:		
	Description and		
	Number of incidents:		
	of spill:		
Spillages	Actions taken:Impact		
	Description and		
	Number of spills:		

^{*}Attach supporting documents such as records, reports, test results, photos, etc.