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# PROPOSAL DEVELOPMENT FORMAT

## National Disaster Risk Management Fund

<b>Name of Project:</b>	
<b>Agency/Organisation:</b>	
<b>Date of Submission:</b>	

<b>Prepared by (FIP Focal Point):</b> (Name and Designation) Date: Signature:	<b>Reviewed by (Fund Focal Point)</b> Name & Designation: Date: Signature
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## Table of Contents

<b>GLOSSARY OF TERMS</b> .....	2
<b>ACRONYMS</b> .....	5
<b>INTRODUCTION</b> .....	7
<b>PROPOSAL DEVELOPMENT FORMAT</b> .....	8
<b>Project Brief</b> .....	8
<b>Organisational Experience relevant to the Proposed Project</b> .....	11
<b>Project Executive Summary (max 1000 words)</b> .....	12
<b>Background, Rationale and Project Objective</b> .....	12
<b>Project Beneficiaries</b> .....	13
<b>Economic Analysis</b> .....	14
<b>Proposed work-plan of the Project</b> .....	15
<b>Team for Proposed Project Implementation</b> .....	17
<b>Key Risks and Mitigation Measures</b> .....	18
<b>Monitoring &amp; Evaluation</b> .....	18
<b>10.1 Results Framework:</b> .....	18
<b>10.2 Monitoring &amp; Evaluation Plan</b> .....	19
<b>Gender Action Plan:</b> .....	20
<b>Disaster Risk Reduction (Foresee Impacts)</b> .....	20
<b>Environmental Implications of the Proposed Project</b> .....	21
<b>Social Safeguard Implications of the Proposed Project</b> .....	21
<b>Project Sustainability and Exit Strategy</b> .....	22
<b>ANNEXURES</b> .....	23
Detailed Cost Estimates by Financier .....	29
Detailed Cost Estimates by Outputs and/or Components.....	31
Detailed Cost Estimates by Year .....	33
Contract and Disbursement S-Curve .....	35

## Annexures

<b>Annexure 1: Potential projects from to be implemented in Phase 1</b> .....	23
<b>Annexure 2. Detailed Cost Estimates by Expenditure Category</b> .....	27
<b>Annexure 3: Sector wise REA Checklists</b> .....	35
<b>Annexure 4: IR Checklist</b> .....	45
<b>Annexure 5: IP Checklist</b> .....	47

## GLOSSARY OF TERMS<sup>1</sup>

**Community-based disaster risk management:** CBDRM promotes the involvement of potentially affected communities in disaster risk management at the local level. This includes community assessments of hazards, vulnerabilities and capacities, and their involvement in planning, implementation, monitoring and evaluation of local action for disaster risk reduction.

**Disaster risk assessment:** A qualitative or quantitative approach to determine the nature and extent of disaster risk by analysing potential hazards and evaluating existing conditions of exposure and vulnerability that together could harm people, property, services, livelihoods and the environment on which they depend.

**Disaster risk management:** Disaster risk management is the application of disaster risk reduction policies and strategies to prevent new disaster risk, reduce existing disaster risk and manage residual risk, contributing to the strengthening of resilience and reduction of disaster losses.

**Disaster risk reduction:** Disaster risk reduction is aimed at preventing new and reducing existing disaster risk and managing residual risk, all of which contribute to strengthening resilience and therefore to the achievement of sustainable development.

**Disaster risk:** The potential loss of life, injury, or destroyed or damaged assets which could occur to a system, society or a community in a specific period of time, determined probabilistically as a function of hazard, exposure, vulnerability and capacity.

**Disaster:** A serious disruption of the functioning of a community or a society at any scale due to hazardous events interacting with conditions of exposure, vulnerability and capacity, leading to one or more of the following: human, material, economic and environmental losses and impacts.

**Exposure:** The situation of people, infrastructure, housing, production capacities and other tangible human assets located in hazard-prone areas.

**Gender:** Culturally and socially based expectations of the roles and behaviour of men and women. Gender is socially constructed.

**Gender Analysis:** Systematic scrutiny of contexts to reveal differences in the conditions and positions of men and women, boys and girls, the factors behind the differences and their implications.

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<sup>1</sup> Report of the open-ended intergovernmental expert working group on indicators and terminology relating to disaster risk reduction of UNISDR, 2016 <https://www.preventionweb.net/publications/view/51748>

**Gender Awareness:** An understanding that there are socially determined differences between women and men based on learned behaviour, which affects access to and control resources and that these inequalities are systemically caused and perpetuated.

**Gender Based Discrimination:** Systematic bias in which a person is denied his or her rights because of being a woman, girl, boy or man.

**Gender Bias:** Prejudiced actions against women or men, boys or girls in the belief that the other sex is inferior or less deserving.

**Gender Disaggregated Data:** Qualitative and quantitative information, broken down to show the different conditions and positions of women, men, boys and girls.

**Gender Equality:** Refers to the same status, rights and responsibilities for and equal sharing of power between women and men, such as, equal access to education, health, administrative and managerial positions, and equal pay for work of equal value, etc.

**Gender Gap:** The gap between men and women in terms of how they benefit from education, employment, services, etc.

**Gender Impact Analysis:** The study of how a policy or programme will affect women and men differently.

**Gender Issues:** Specific consequences of the inequality of women and men

**Gender Mainstreaming:** A strategy for ensuring that gender is taken into account gender to reduce the impact of disasters and climate change, and to incorporate gender analysis in climate change and disaster management, risk reduction and sustainable development to decrease vulnerability.

**Gender Sensitivity:** Awareness of and respect for the needs, interests and sensibilities of women as women and men as men, e.g. not using derogatory language, avoiding stereotypes, avoiding patronizing language, providing facilities for both in recognition of different needs etc.

**Gender Strategies:** A comprehensive framework aims to strengthen *gender* equality both in the Fund and at programme level.

**Hazard:** A process, phenomenon or human activity that may cause loss of life, injury or other health impacts, property damage, social and economic disruption or environmental degradation.

**Mitigation:** The lessening or minimizing of the adverse impacts of a hazardous event.

**Person with Disabilities:** Those who have long-term physical, mental, intellectual or sensory impairments which in interaction with various barriers may hinder their full and effective participation in society on an equal basis with others (The UN Convention on the Rights of *Persons with Disabilities* 2002)

**Preparedness:** The knowledge and capacities developed by governments, response and recovery Organisations, communities and individuals to effectively anticipate, respond to and recover from the impacts of likely, imminent or current disasters.

**Prevention:** Activities and measures to avoid existing and new disaster risks.

**Recovery:** The restoring or improving of livelihoods and health, as well as economic, physical, social, cultural and environmental assets, systems and activities, of a disaster-affected community or society, aligning with the principles of sustainable development and “build back better”, to avoid or reduce future disaster risk.

**Resilience:** The ability of a system, community or society exposed to hazards to resist, absorb, accommodate, adapt to, transform and recover from the effects of a hazard in a timely and efficient manner, including through the preservation and restoration of its essential basic structures and functions through risk management.

**Retrofitting:** Reinforcement or upgrading of existing structures to become more resistant and resilient to the damaging effects of hazards.

**Sex:** Biological distinction between males and females, e.g. males sire children, females bear and breastfeed children etc. Sexual differences are the same across the world and are natural.

**Structural and non-structural measures:** Structural measures are any physical construction to reduce or avoid possible impacts of hazards, or the application of engineering techniques or technology to achieve hazard resistance and resilience in structures or systems. Non-structural measures are measures not involving physical construction which use knowledge, practice or agreement to reduce disaster risks and impacts, in particular through policies and laws, public awareness raising, training and education.

## ACRONYMS

NDRMF	National Disaster Risk Management Fund
NDMA	National Disaster Management Authority
DDMA	District Disaster Management Authority
GOP	Government of Pakistan
ADB	Asian Development Bank
NDMP	National Disaster Management Plan
NFPP	National Flood Protection Plan
EAD	Economic Affairs Division
FIPs	Flood Implementation Partners
PC 1	Planning Commission Profarma 1
PDMA	Provincial Disaster Management Authority
MHVRA	Multi-Hazard Vulnerability Risk Assessment
SFDRR	Sendai Framework for Disaster Risk Reduction
SDGs	Sustainable Development Goals
ESMS	Environment and Social Management System
PKR	Pakistani Rupees
EA	Executive Agencies
GAD	Gender Action Plan
CSOs	Civil Society Organisations
NGOs	Non-Governmental Organisation
PWDs	Person with Disability
TORs	Terms of Reference
CV	Curriculum Vitae
GPS	Global Positioning System
IEE	Initial Environmental Examination
EIA	Environmental Impact Assessment
REA	Rapid Environmental Assessment
IP	Indigenous People
MOU	Memorandum of Understanding

TMA	Tehsil Municipal Authority
UC	Union Council
DMPs	Disaster Management Plans
EWS	Early Warning System
GLOFs	Glacial Lake Outburst Floods
NIDM	National Institute for Disaster Management
DRR	Disaster Risk Reduction
DRM	Disaster Risk Management
CCA	Climate Change Adaptation
CBDRM	Community Based Disaster Risk Management
ROW	Right of Work

## INTRODUCTION

The National Disaster Risk Management Fund (the Fund, NDRMF) is a not-for-profit company incorporated with the Securities and Exchange Commission of Pakistan, under Section 42 of the Companies Ordinance 1984. It is a government-owned non-banking financial intermediary with a corporate structure. The NDRMF is a rights based organization and is working for reducing the socio-economic and fiscal vulnerability of the country and its population, including women, religious and ethnic minorities and persons with disability to natural hazards by prioritizing and financing investments in disaster risk reduction and preparedness that have high economic benefits, taking into account climate change, as well as disaster risks and their impacts. The initial financing of the NDRMF is through an ADB loan funds to the Government of Pakistan, equivalent of \$200.0 million and an Australian grant equivalent of \$3.4 million. The Government has awarded this money to the NDRMF as a grant, for on-granting by NDRMF to eligible implementing partners. The NDRMF finances up to 70% of the cost of selected<sup>2</sup> projects that enhances Pakistan s resilience to extreme weather events and other natural hazards.

The Fund is in line with existing policies and strategies of the Government of Pakistan (GOP) to address disasters, including (i) the Disaster Risk Reduction Policy (2013); (ii) Climate Change Policy (2013); (iii) Vision 2025; (iv) National Disaster Management Plan 2013-2022 (NDMP); (v) the draft National Flood Protection Plan IV (NFPP) (2016-2025); and the Government's international commitments, including (i) Post-2015 Sendai Framework for Disaster Risk Reduction, 2015-2030 and (ii) Sustainable Development Goals (SDGs).

The NDRMF is supporting existing government entities including the National Disaster Management Authority (NDMA), Provincial Disaster Management Authorities (PDMA), District Disaster Management Authorities (DDMA); civil society organisations, local and international nongovernment organisations (NGOs), UN agencies; academia and research institutions etc involved in disaster risk management and could include public-private partnership models. These Fund Implementation Partners (FIPs) use the resources transferred by NDRMF and carry out activities in accordance with the contract signed between the FIP and NDRMF.

The purpose of the Proposal development Format is to maintain uniformity in the proposals, which helps in better evaluation and selection of the potential projects. Environmental and Social Safeguards, Gender Equality and inclusiveness are cross cutting themes for the Fund and all potential FIPs and projects are evaluated from these lens. Nongovernment entities will be accredited after their proposals are shortlisted.

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<sup>2</sup> Through competitive process

## PROPOSAL DEVELOPMENT FORMAT

### Project Brief

PROJECT AT A GLANCE			
Basic Data			
<b>Project Name</b>		<b>Date of Submission</b>	
<b>PC-1 Approval Date</b>	<i>If applicable, in case EA is a Govt. Entity</i>	<b>Duration:</b>	<i>In months</i>
<b>Start Date</b>		<b>End Date<sup>3</sup></b>	
<b>Geographic Coverage</b>	<i>Province, District, Tehsil &amp; no. of Union Councils with map of the proposed project area</i>	<b>Name of Executing/Lead Agency / Organisation</b>	
<b>Name of Implementing/Partner Agency(ies) / Organisation(s)</b>	<i>Please provide the complementarity and partnership opportunity (if any) by engaging the potential stakeholders</i>	<b>Counterpart public agency /department<sup>4</sup></b>	<i>(Public agency e.g. NDMA, PDMA, DDMA, Irrigation, Health, city government or district government)</i>
<b>Linkage with NDMP</b>	<p>Intervention 3: Strategy 1 / Strategy 2</p> <p>Intervention 7: Strategy 1/ Strategy 2</p>	<p><b>DRM / Climate Change Category</b></p> <p>(The Fund will strictly focus the implementation of strategies/interventions of National Disaster Management Plan (NDMP), 2013-2022 and Flood Protection Plan IV. Following are the areas identified initially (2018-2020) for financing the projects from the fund in Phase 1, however</p>	<p><input type="checkbox"/> MHVRA</p> <p><input type="checkbox"/> CBDRM</p> <p><input type="checkbox"/> Emergency Response Plans</p> <p><input type="checkbox"/> Infrastructure development</p> <p><input type="checkbox"/> Retrofitting</p> <p><input type="checkbox"/> Mitigation/Adaptation</p> <p><input type="checkbox"/> Preparedness</p>

<sup>3</sup> The proposed project end date must be before January 2021

<sup>4</sup> Please annex Informed Letter of Intent/Collaboration with Public/Private Sector Agency to ensure sustainability of post project operations

<b>Linkage with SFDRR</b>	Priority 1/Target 1	the projects identified for phase 2 and phase 3 are shown in Annex 1)	<input type="checkbox"/> Prevention <input type="checkbox"/> Structural interventions for drought and dry land management <input type="checkbox"/> Climate Change <input type="checkbox"/> Cross-cutting <input type="checkbox"/> Other Relevant category
	Priority 2/Target 3	FIPs may take one or multiple categories in one project	
<b>Linkage with SDGs</b>	Goal 1: Target 1/Target 2		
<b>Project Classification (under ESMS)<sup>5</sup></b>	<b>Type of Intervention</b> (structural or non-structural interventions)	<input type="checkbox"/> <b>Hard</b>	
		<input type="checkbox"/> <b>Soft</b>	
		<input type="checkbox"/> <b>Both</b>	
	<b>Environment Safeguards</b>	· <i>Category</i>	
	<b>Social Safeguards</b>	· <i>Category</i>	
<b>Gender Mainstreaming</b>	· <i>Category</i>		

<sup>5</sup> Reference: Environment and Social Management System (ESMS) and Gender and Development Policy of NDRMF at [www.ndrmf.pk](http://www.ndrmf.pk)

Project Design Summary				
Impact				
Outcome				
Outputs	Output 1:			
	Output 2:			
	Output 3:			
Implementing Agencies (in case of partnership)				
For Output 1:		For Output 2:		
For Output 3:		For Output 4:		
Financing Plan (PKR million)				
Project Size and Category (Total investment in millions)	<input type="checkbox"/> Small (50-100)	<input type="checkbox"/> Medium (100-500)	<input type="checkbox"/> Large (>500)	
Project Total Cost	Contributions			
	NDRMF	FIP	<i>Other Sources</i> (please specify)	
			1	2
Percentage of Contribution				
Summary Project Cost – by Category of Expenditure (PKR Million)				
Category of Expenditure	Amount Financed by			
	NDRMF	FIP	Others (please specify)	Total
1. Turnkey Contracts				
2. Civil Works				
3. Equipment and Material				

4. Soft e.g. awareness raising, advocacy				
5. Environment and social mitigation				
6. Gender Mainstreaming				
7. Consultants				
8. Recurring Costs				
9. Contingencies				
<b>Total Project Cost</b>				
<b>Contact Information</b>				
<b>Project contact details (Executing organisation/ agency)</b>	Contact person's name and position of the EA			
	Organisation			
	Email address			
	Telephone number			
	Mailing address			

### Organisational Experience relevant to the Proposed Project

Details of Completed & Ongoing Projects in last 2-5 years

Project	Funding Source	Project Location (Province/District/ Tehsil/Union Councils)	Major Outputs	Project Duration (From – To)	Total Budget (PKR)

### Project Executive Summary (max 1000 words)

*Please provide a brief description of the proposed project i.e. context of problem, justification and need for the project, profile of the project area, target communities, key objectives, primary measurable benefits, the proposed approach etc. Highlight relevance of the project with NDMP or NFPP-IV, also augment with social inclusiveness of vulnerable groups and gender equality, environmental and social safeguards, and economic viability.*

### Background, Rationale and Project Objective

*(Not more than one page)*

*Please provide a brief context for the proposed project including problem analysis. Describe situation/circumstances which led to the need to develop the proposed project. Please provide project interventions and identifiable quantifiable activities to fill the gaps and also provide solid objectives against the baseline. Indicate importance of the proposed project to the NDMP and NFPP-IV, in terms of contributing to its overall and or specific focal area and complies with NDRMF key policies i.e. ESMS and GAD. Also reflect the relationship of the project to federal, provincial, district or tehsil governments, NGOs, multilateral and bilateral aid agency projects, and community-based, CSOs, and/or private sector initiatives. This will ensure that the intervention is not a standalone activity and could lead to sustainability of the initiative. Briefly provide stakeholder consultations held during the design phase and report outcome of social, poverty and gender analysis, and how project can contribute to enhance social inclusion of vulnerable groups including women, and provide gender disaggregated data<sup>6</sup> with source and date of the information.*

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<sup>6</sup> Following questions must be responded: How does the identified problem affect women and men, ethnic or religious minorities, persons with disabilities and how the project would reduce their project specific vulnerabilities, how project will improve women and men's situation and conditions, what differences the project will bring in their lives, if applicable, how the project will contribute to minimizing inequalities between women and men, how project will be monitored to avoid, minimize and mitigates any negative impacts on the lives of women, men, ethnic or religious minorities, PWDs or other vulnerable groups, how the project will be monitored to ensure that desired results are achieved.

## Project Beneficiaries<sup>7</sup>

Direct Beneficiaries, If Applicable (In numbers),	Indirect Beneficiaries (In numbers)			
<i>Participation and role of direct beneficiaries in implementation of the project as well as afterwards as impact beneficiaries. The benefices should be segregated based on gender, age or economic class.</i>	<i>Participation and role of indirect beneficiaries in implementation of the project as well as afterwards as impact beneficiaries. The benefices should be segregated based on gender, age or economic class.</i>			
<b>Detail of Beneficiary Vulnerable Groups</b>				
<b>Type</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>	<b>Others</b>
Poor (below poverty line)				
Religious Minorities				
Trans-Gender				
Women Headed Households/Single Parent				
Person With Disability (PWD)				
Indigenous Peoples				
Others (please specify)				
<i>Participation and role of vulnerable/marginalized groups in implementation of the project as well as afterwards.</i>				

<sup>7</sup> If direct or indirect beneficiaries are not applicable, please justify.

## Economic Analysis

### Economic Evaluation<sup>8</sup>

#### Economic Analysis for Hard/Infrastructure Components:

Describe briefly, the approach and methodology adopted for economic analysis<sup>9</sup> with results e.g. IRR, NPV etc, and Submit calculation sheets with associated data used for the subject analysis. Some of the indicators tabulated below may need to be submitted along with dully filled annex 6 “Project Appraisal Checklist” where applicable.

#### Baseline Data of Economic Elements-at-Risk

Category of Relevant Project Data	Requirements for Project Specific Data	Data Source
Specific target area of the proposed project	Specify locations of Settlements Specific location of urban centres Critical facilities e.g. hospitals, schools etc.	
Economic data of agriculture related project	Total district level crop area with type of crops	
Infrastructure/Housing related data	Number of houses and type of construction (pacca, semi-pacca and kacha) located in the project area	
Population data	Gender disaggregated data of population , of project target area	
Detail of basic facilities in the proposed project area	Detail of road network, bridges , education, health, portable water, sanitation, electricity and any other facilities	
Detail of land use in the project area	Land use categories i.e. forest type, agriculture area, water bodies (e.g. river, stream network etc), industries, fuel pumps, grid stations and any other uses of land	

<sup>8</sup> An independent economic evaluation of the proposed project will be carried out by the organization from their own resources.

<sup>9</sup> Please annex any relevant information used for this analysis with source of information

Data for Hazard Assessment

Hazard Category	Type of Data Required	Data Source
Earthquake	Earthquake donation Map Peak Ground Acceleration map Fault map Earthquake catalogue	
Flash Flood	Information about past flood events and potential damage may occur	
Any other		
Riverine Flood	Flood extent in 2010 rainfall data in Indus River Basin	
Landslide	Land cover Road network River Digital Elevation Model	
Snow Avalanches	Glacier map Snow cover map Location of Past Avalanche occurrences	
Drought	Drought map of the proposed project area	
Windstorm	Metrological station data in Indus river basin (including geographical location of meteorological stations).	

**Proposed work-plan of the Project**

*Please provide Detail of Inception Phase and work-plan of Future Activities*

Outputs	Planned Activities	Timeframe (Quarters) from starting date of the project							
		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
<i>Inception Phase</i>									





2.3 Administration and Logistics
2.4 Environment and Social Safeguards
2.5 Gender Mainstreaming

**Key Risks and Mitigation Measures**

*Identify and list the major risks (internal/external) that could result in the project not achieving desired results. Prioritize these risks based on probability of occurrence and severity and their impact on the project*

S #	Key Risks <sup>10</sup>	Probability (low/ medium/high)	Severity (low/ medium/high)	Mitigation Measures	Comments
1					
2					
3					

**Monitoring & Evaluation**

**10.1 Results Framework:**

Impact Statement the Project is aligned with				
Results Chain	Performance Indicators <sup>11</sup>		Means of Verifications	Risks/Assumptions
	Baselines	Targets		

<sup>10</sup> Specific risk and mitigation strategies must be developed to avoid, minimize and/or mitigate adverse impacts on vulnerable groups including women.  
<sup>11</sup> Please provide gender disaggregated data.

			(Data Sources and Reporting)	
<b>Outcome<sup>12</sup></b>				
<b>Outputs</b>				
1.	1a. 1b. 1c. 1d.	1a. 1b. 1c. 1d.		
2.	2a. 2b. 2c. 2d.	2a. 2b. 2c. 2d.		
Key Activities with Milestones				
Inputs				

**10.2 Monitoring & Evaluation Plan**

Narrative

How will the performance of the project be tracked in terms of achievement of the milestones set forth in the results framework?

How will the impact of the project be assessed in terms of achieving the project's objectives?

How will the mid-term assessment and related adjustment of the project design and plans be managed?

How will the inclusiveness of stakeholders/community members (including Gender, Vulnerable groups) in the project M& processes be achieved?

Monitoring table

Indicators	Indicator Definition/Unit	Data Collection method/sources	Frequency of Monitoring
Outcome			

<sup>12</sup> Outcome statement aligned with the Strategy Intervention/Outcome of ( NDMM/NFPP IV)

Output1			
Output 2			

**Gender Action Plan<sup>13</sup>:**

Gender Action Plan<sup>14</sup> (GAP) is an integral part of results framework with specific allocated budget and a senior official responsible for its implementation.

S #	Outcome	Outputs	Activities	Monitoring indicators		Responsibility
				Baseline	Targets	

**Disaster Risk Reduction (Foresee Impacts)**

*Please mention as to how the proposed intervention will reduce/mitigate the risk in quantitative or other qualitative terms and its adjustment with the objectives/targets of NDMP/NFPP IV.*

<sup>13</sup> GAP assesses constraints and opportunities for women and men including other vulnerable groups i.e. persons with disabilities, persons living under poverty line, indigenous peoples, trans-gender, religious and ethnic minorities etc identified during the poverty, social and gender analysis and fully addresses/integrates them into the project design and implementation/operationalization. The plan should include: (i) gender-responsive actions that address needs of vulnerable women and men; (ii) gender performance indicators and gender disaggregated targets incorporated into results framework; and (iii) presentation of gender-responsive development impacts.

<sup>14</sup> If, the project has a scope for gender equity, gender mainstreaming or has some gender elements then development of a Gender Action Plan is required.

### Environmental Implications of the Proposed Project

Provide following document/information in order to assess the level of environmental issues associated with the proposed project intervention(s):

**Completed Rapid Environmental Assessment (REA) Checklist** (Sector wise templates provided Annex 3)

GPS Co-ordinates of proposed project location(s)

If there is a need for IEE or EIA is required, provide summary of initial due diligence and tentative date for preparation of IEE/EIA

### Social Safeguard Implications of the Proposed Project

Provide following documents in order to assess the social safeguard issues of the proposed project intervention:

**Completed Involuntary Resettlement (IR) Checklist** (provided Annex 4)

If proposed project involves land acquisition and resettlement, please provide summary of initial due diligence and tentative date for preparation of Resettlement Plan

**Completed Indigenous Peoples' (IP) Checklist** (provided Annex 5)

If proposed project is to be implemented in the area of indigenous peoples, provide summary of initial due diligence and tentative date for preparation of Indigenous Peoples Plan

## Project Sustainability and Exit Strategy

*A successful project needs to have a successful closing by linking and integrating all the outcomes to the national development and disaster management agenda. Please mention the period and the key activities of the project closing as project exit strategy.*

*In addition also list the sustainability options of all the efforts made for the change under your project in detail.*

- *Agency/organisation who will take over the operations and maintenance after completion of the project<sup>15</sup>*
- *Source of funding for future operations, if different from above*

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<sup>15</sup> Please annex MOU with Public/Private Sector Agency to ensure sustainability of post project operations

## ANNEXURES

### Annexure 1: Potential projects from to be implemented in Phase 1

Potential Projects for Phase 1	NDMP Intervention Area
Multi Hazard Vulnerability and Risk Assessment (MHVRA)	<p><b>National Disaster Management Plan 2012-2022, Section 4.5;</b></p> <p><b>Intervention-3: “Establishment of National Hazard and Vulnerability Assessment”</b></p> <p>Strategy-1: Conduct detailed MHVRA at the national level.</p> <p>Strategy-2: Conduct detailed MHVRA at local levels.</p>
Strengthening readiness of the communities through CBDRM activities.	<p><b>National Disaster Management Plan 2012-2022;</b></p> <p><b>Intervention-6: “Strengthen Awareness Program on Disaster Risk Reduction at Local Level”</b></p> <p><b>Strategy-3:</b> Implement and disseminate CBDRM activities.</p> <p><b>Strategy-4:</b> Disseminate self-help and mutual help efforts in disaster management.</p>
National and Subnational Emergency Response Plans	<p><b>Intervention-2: “Prepare disaster management plans at various levels”</b></p> <p><b>Strategy-1:</b> Formulate and update disaster management plans at national, provincial, district and community or TMA levels</p> <p><b>Strategy-2:</b> Develop hazard specific contingency plans</p>
Early Warning Systems	<p><b>National Disaster Management Plan 2012-2022;</b></p> <p><b>Intervention-2: “Prepare Disaster Management Plans at Various Levels”</b></p> <p><b>Strategy-1:</b> Formulate/update disaster management plans at national, provincial, district and community or TMA levels.</p> <p><b>Strategy-2:</b> Develop hazard specific contingency plans.</p>
Retrofitting of the Infrastructure against Disaster and Climate Change (schools, hospitals and other important public facilities).	<p><b>Intervention-7: “Infrastructure development for disaster risk reduction”</b></p> <p><b>Strategy-1:</b> Structural vulnerability evaluation for schools and hospitals against earthquakes, tsunamis and floods in Pakistan.</p> <p><b>Strategy-4:</b> Implement appropriate structural measures in flood prone areas taking into account</p>

Structural measures in flood prone areas (river works: embankment strengthening and protection walls). Structural interventions for drought and dry land management.	comprehensive and integrated flood management plans “ <b>National Flood Protection Plan IV</b> ”
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Projects identified from the NDMP to be implemented in Phase 2 and Phase 3 by the NDRMF	
Reference # of NDMP	Activity/ Projects with Intervention Number
Intervention-1: Establish the institutional and legal system for disaster management	
1.3.	District Disaster Management Authorities should be established and be functional
1.4.	TMA and UC should recognize their roles and responsibilities in disaster management
4.2.	Each disaster management organisation implements drills and training based on its disaster operation and contingency plans
Intervention-2: Prepare disaster management plans at various levels	
1.1. & 1.2.	To develop district and provincial/regional DMPs
2.1.	To develop hazard specific contingency plans at provincial levels.
2.2.	Develop sectorial disaster management operational plans in federal ministries, departments and authorities
4.1.	Implement drills and training and feed back to disaster operation and contingency plans
Intervention-3: Establish a national hazard and vulnerability assessment	
1	Conduct detailed multi-hazard vulnerability and risk analysis/assessments at local levels
2	Conduct detailed multi-hazard vulnerability and risk analysis/assessments at national level
Intervention-4: Establish a multi-hazard early warning system	
2-1	Tsunami Simulation and Hazard Maps for the vulnerable coastal zones
2-5	Expansion of Rainfall and Water Level Observation Network
2-6	Establishment of Local Flash Flood Forecast and Warning System (LFFFC)

2-7	EWS for GLOF and Snowmelt Flash Flood w/Hazard Maps
2-8	Research Activities for Snow/Glacier/Glacial Lakes
2-11	Establishment of Weather Forecast Guidance System
1.13	Expansion of the real-time rainfall & water level observation network
Intervention-5: Promotion of training, education and awareness in relation to disaster management	
1.1.	Setting up of organisation of NIDM
1.2.	Construction of NIDM
1.4.	Systemization of DRM capacity building
1.6.	Establishment of library and Disaster Information Resource Centre (DIRC)
1.7.	Promotion of research in DRR and CCA
2.3.	Implementation of regular refresher training for district fire brigades
2.4.	DRM workshops for TMA staff
5.3.	Promotion of disaster education in higher education
Intervention-6: Strengthen awareness on disaster risk reduction at local level	
2.1	Preparing evacuation maps for vulnerable districts
3.2.	Preparing information site regarding CBDRM on NDMA web page for CBDRM practitioners
5.2	Mitigation measures for community DRM are incorporated in the local government development program
Intervention-7: Infrastructure development for disaster risk reduction	
1.1.	Structural vulnerability evaluation for schools and hospitals against earthquakes, tsunamis and floods in Pakistan
1.2.	Preparation of guidelines for new public building construction in the areas vulnerable to disasters
2.1.	Construction of coastal dikes along major public facilities against tsunamis and storm surges (cyclones)
4.2	Implement appropriate structural measures in flood prone areas taking into account comprehensive and integrated flood management plans
Intervention-8: Mainstreaming disaster risk reduction into development	
1.2.	The National Development Plan and National Poverty Reduction Strategy should include disaster risk reduction as a national policy
3.1.	Conduct cost-benefit analysis of integrated risk reduction into development sectors
Intervention-9: Establish a national emergency response system	

1.1.	Develop emergency operation centres at national, provincial and district levels
1.3.	Prepare emergency response plans for the major lifelines and critical facilities, such as telephone, electricity, health, and water supply
2.3.	Strengthen training institutions of the Pakistan Civil Defence to train emergency responders
3.1.	Establish a robust communication system that can be used during emergency situations

<b>Intervention/s in line with the Integrated Flood Management actions of the NFPP IV</b>				
<b>Description</b>		<b>Indicate phase wise breakup of the Interventions</b>		
		<b>Phase-I (First 5 Years)</b>	<b>Phase-II (Last 5 years)</b>	<b>Total (10-years)</b>
<b>I. Structural Measures</b>				
1	Construction of Proposed Flood Protection Works.			
2	Flood Management Structures Across Hill Torrents and Flood Generating Nullahs.			
3	Feasibility & Detailed Design Studies of Barrages and Hydraulic Structures.			
4	Master Planning, Feasibility Studies, and Detailed Designing Studies.			
5	Physical Hydraulic Model Study for Major Railway Bridges and Improvements of Existing Flood Protection Facilities of Pakistan Railway.			
6	Physical Hydraulic Model Study for Selected Reaches of Major Rivers.			
7	Measures for GLOFs & Land Sliding in Hilly Areas.			
8	Remodelling & Proper Maintenance of Drainage System.			
9	Coastal Flood Protection Works.			
10	Flood Mitigation, Channelization and Execution of the Lai Nullah Project (Only Flood Component).			
11	Studies for Proper Town Planning in Future and Improving the Existing Storm Drainage System of Urban Areas.			
12	Provision of Annual Funds under Provincial ADPs for Flood Fighting Activities during Flood Season and Procurement & Repair of Flood Fighting Equipment & Machinery under PIDs.			
<b>Sub-Total (I)</b>				
<b>II. Non-structural Measures</b>				
1	Up-gradation & Expansion in Existing Flood Forecasting and Warning System of PMD.			
2	Up-gradation, Installation and Expansion in Existing Gauging System of WAPDA.			
3	Study to be Conducted for Removal of Encroachments in major Rivers & Hill Torrents and Procurement of LiDAR's.			

4	Study and Implementation Cost for Development of Watershed Management in Upper Catchment Areas of Rivers & Hill Torrents.			
5	Disaster Management Activities by NDMA, Rescue and Relief.			
6	Study for Drought Management			
7	Feasibility/Technical Studies for Ramsar Sites.			
8	Capacity Building for All Institutions Dealing with Flood Management in the Country.			
	<b>Sub-Total (II)</b>			
	<b>Total (I+II)</b>			

## Annexure 2. Detailed Cost Estimates by Expenditure Category

{This table should identify the types of expenditure included in the overall project cost. Investment costs should be broken down by primary expenditure category. This will be project-specific.}

**Table X:** {Title}

Item	(PKR million)			% of Total Base Cost
	Unit cost	Number	Total Cost	
<b>A. Investment Costs</b>				
Turnkey contract	0.00	0.00	0.00	0.0%
Civil works	0.00	0.00	0.00	0.0%
Mechanical and equipment	0.00	0.00	0.00	0.0%
Environment and social mitigation	0.00	0.00	0.00	0.0%
Consultants	0.00	0.00	0.00	0.0%
a. Project management	0.00	0.00	0.00	0.0%
b. Capacity development	0.00	0.00	0.00	0.0%
<b>Subtotal (A)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>
<b>B. Recurrent Costs</b>				
1. Salaries	0.00	0.00	0.00	0.0%
2. Accommodation	0.00	0.00	0.00	0.0%
3. Equipment operation and maintenance	0.00	0.00	0.00	0.0%

Item	(PKR million)			Total Cost	% of Total Base Cost
	Unit cost	Number			
<b>Subtotal (B)</b>	<b>0.00</b>	<b>0.00</b>		<b>0.00</b>	<b>0.0%</b>
<b>Total Base Cost</b>	<b>0.00</b>	<b>0.00</b>		<b>0.00</b>	<b>0.0%</b>
<b>C. Contingencies</b>					
1. Physical	0.00	0.00		0.00	0.0%
2. Price	0.00	0.00		0.00	0.0%
<b>Subtotal (C)</b>	<b>0.00</b>	<b>0.00</b>		<b>0.00</b>	<b>0.0%</b>
<b>Subtotal (D)</b>	<b>0.00</b>	<b>0.00</b>		<b>0.00</b>	<b>0.0%</b>
<b>Total Project Cost (A+B+C)</b>	<b>0.00</b>	<b>0.00</b>		<b>0.00</b>	<b>0.0%</b>

Notes:

Numbers may not sum precisely because of rounding.

*Environment and social mitigation includes all costs associated with implementing relevant safeguards, gender, and social dimension action plans.*

Source(s): {Indicate source(s)}

### Detailed Cost Estimates by Financier

*{This table should identify the types of expenditure included in the overall project cost. Investment costs should be broken down by primary expenditure category and by financier. This will be project-specific.}*

**Table X:** *{Title}*

Item	Financier 1		Financier 2		Financier n		Total Cost <sup>16</sup>	
	Amount	% of Cost Category	Amount	% of Cost Category	Amount	% of Cost Category	Amount	Taxes and Duties
	{A}	{A/D}	{B}	{B/D}	{C}	{C/D}	{D}	{E}
<b>A. Investment Costs</b>								
1. Turnkey contract	0	0.00%	0	0.00%	0	0.00%	0	0
2. Civil works	0	0.00%	0	0.00%	0	0.00%	0	0
3. Mechanical and equipment	0	0.00%	0	0.00%	0	0.00%	0	0
4. Environment and social mitigation	0	0.00%	0	0.00%	0	0.00%	0	0
5. Consultants	0	0.00%	0	0.00%	0	0.00%	0	0
a. Project management	0	0.00%	0	0.00%	0	0.00%	0	0
b. Capacity development	0	0.00%	0	0.00%	0	0.00%	0	0
<b>Subtotal (A)</b>	<b>0</b>	<b>0.00%</b>	<b>0</b>	<b>0.00%</b>	<b>0</b>	<b>0.00%</b>	<b>0</b>	<b>0</b>
<b>B. Recurrent Costs</b>								
1 Salaries	0	0.00%	0	0.00%	0	0.00%	0	0
2 Accommodation	0	0.00%	0	0.00%	0	0.00%	0	0

3	Equipment operation and maintenance	0	0.00%	0	0.00%	0	0.00%	0	0
	<b>Subtotal (B)</b>	<b>0</b>	<b>0.00%</b>	<b>0</b>	<b>0.00%</b>	<b>0</b>	<b>0.00%</b>	<b>0</b>	<b>0</b>
	<b>Total Base Cost</b>	<b>0</b>	<b>0.00%</b>	<b>0</b>	<b>0.00%</b>	<b>0</b>	<b>0.00%</b>	<b>0</b>	<b>0</b>
<b>C.</b>	<b>Contingencies</b>	<b>0</b>	<b>0.00%</b>	<b>0</b>	<b>0.00%</b>	<b>0</b>	<b>0.00%</b>	<b>0</b>	<b>0</b>
	<b>Total Project Cost (A+B+C)</b>	<b>0</b>	<b>0.00%</b>	<b>0</b>	<b>0.00%</b>	<b>0</b>	<b>0.00%</b>	<b>0</b>	<b>0</b>
	<b>% Total Project Cost</b>		<b>X% {i.e., Financier 1's share in project cost}</b>		<b>X% {i.e., Financier 2's share in project cost}</b>		<b>X% {i.e., Financier n's share in project cost}</b>		<b>100%</b>

Note:

Numbers may not sum precisely because of rounding.

*Environment and social mitigation includes all costs associated with implementing relevant safeguards, gender, and social dimension action plans.*

Source(s): {Indicate source(s)}

### Detailed Cost Estimates by Outputs and/or Components

*{This table should identify the types of expenditure included in the overall project cost. Investment costs should be broken down by primary expenditure category. This should be project-specific.}*

**Table X: {Title}**

(PKR million)

Item	Total Cost	Output/Component 1		Output/Component 2		Output/Component n	
		Amount	% of Cost Category	Amount	% of Cost Category	Amount	% of Cost Category
<b>A. Investment Costs<sup>b</sup></b>							
Turnkey contract	0.00	0.00	0.0%	0.00	0.0%	0.00	0.0%
Civil works	0.00	0.00	0.0%	0.00	0.0%	0.00	0.0%
Mechanical and equipment	0.00	0.00	0.0%	0.00	0.0%	0.00	0.0%
Environment and social mitigation	0.00	0.00	0.0%	0.00	0.0%	0.00	0.0%
Consultants	0.00	0.00	0.0%	0.00	0.0%	0.00	0.0%
A. Project management	0.00	0.00	0.0%	0.00	0.0%	0.00	0.0%
B. Capacity development	0.00	0.00	0.0%	0.00	0.0%	0.00	0.0%
<b>Subtotal (A)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.00</b>	<b>0.0%</b>
<b>B. Recurrent Costs</b>							
Salaries	0.00	0.00	0.0%	0.00	0.0%	0.00	0.0%
Accommodation	0.00	0.00	0.0%	0.00	0.0%	0.00	0.0%

Item	Total Cost	Output/Component 1			Output/Component 2		Output/Component n	
		Amount	% of Cost Category	Amount	% of Cost Category	Amount	% of Cost Category	
Equipment operation and maintenance	0.00	0.00	0.0%	0.00	0.0%	0.00	0.0%	
<b>Subtotal (B)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.00</b>	<b>0.0%</b>	
<b>Total Base Cost</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.00</b>	<b>0.0%</b>	
<b>C. Contingencies</b>								
Physical <sup>c</sup>	0.00	0.00	0.0%	0.00	0.0%	0.00	0.0%	
Price <sup>d</sup>	0.00	0.00	0.0%	0.00	0.0%	0.00	0.0%	
<b>Subtotal I</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.00</b>	<b>0.0%</b>	<b>0.00</b>	<b>0.0%</b>	
<b>Total Project Cost (A+B+C)</b>	<b>0.00</b>	<b>0.00</b>	<b>0.0%</b>		<b>0.0%</b>	<b>0.00</b>	<b>0.0%</b>	

*{List alphabetically and define all abbreviations, if any, used in this table. Use Arial 9 pt. font.}*

Note: Numbers may not sum precisely because of rounding.

*Environment and social mitigation includes all costs associated with implementing relevant safeguards, gender, and social dimension action plans.*

Source(s): *{Indicate source(s)}*

**Detailed Cost Estimates by Year**

15. {This table should identify the types of expenditure included in the overall project cost by year to enable the disbursement S-curve to be plotted in Section IV.F. Investment costs should be broken down by primary expenditure category. This will be project-specific.}17

**Table X: {Title}**

(PKR million)

Item	Total Cost	Year 1	Year 2	Year 3	Year 4	Year 5	Year n
<b>A. Investment Costs</b>							
Turnkey contract	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Civil works	0.00	0.00	0.00	0.00	0.00	0.00	
Mechanical and equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Environment and social mitigation	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consultants	0.00	0.00	0.00	0.00	0.00	0.00	0.00
a. Project management	0.00	0.00	0.00	0.00	0.00	0.00	0.00
b. Capacity development	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Subtotal (A)</b>	<b>0.00</b>	<b>0.00</b>	0.00	<b>0.00</b>	0.00	<b>0.00</b>	0.00
<b>B. Recurrent Costs</b>							
Salaries	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Accommodation	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Equipment operation and maintenance	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Subtotal (B)</b>	<b>0.00</b>	<b>0.00</b>	0.00	<b>0.00</b>	0.00	<b>0.00</b>	0.00

	<b>Total Base Cost</b>	<b>0.00</b>	<b>0.00</b>	0.00	<b>0.00</b>	0.00	<b>0.00</b>	0.00
<b>C.</b>	<b>Contingencies</b>	<b>0.00</b>	<b>0.00</b>	0.00	<b>0.00</b>	0.00	<b>0.00</b>	<b>0.00</b>
	<b>Total Project Cost (A+B+C)</b>	<b>0.00</b>	<b>0.00</b>	0.00	<b>0.00</b>	0.00	<b>0.00</b>	<b>0.00</b>
			<b>{X%}</b> {i.e., Year 1's share in project cost}	<b>{X%}</b> {i.e., Year 2's share in project cost}	<b>{X%}</b> {i.e., Year 3's share in project cost}	<b>{X%}</b> {i.e., Year 4's share in project cost}	<b>{X%}</b> {i.e., Year 5's share in project cost}	<b>{X%}</b> {i.e., Year n's share in project cost}
	<b>% Total Project Cost</b>	<b>100%</b>						

Source(s): *{Insert source(s)}*

### **Contract and Disbursement S-Curve**

{Graph(s) show quarterly contract awards and disbursement projections over the life of the project. The projection for contract awards should include contingencies. The total projected disbursements should be equal to the full grant amount, up to 4 months after grant closing.

#### **Annexure 3: Sector wise REA Checklists**

#### **IRRIGATION**

#### **Rapid Environmental Assessment (REA) Checklist**

##### **Instructions:**

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

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

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

**Project Title:**

**Sector Division:**

<b>Screening Questions</b>	<b>Yes</b>	<b>No</b>	<b>Remarks</b>
Project Siting Is the Project area adjacent to or within any of the following environmentally sensitive areas?			

Screening Questions	Yes	No	Remarks
Protected Area			
Wetland			
Mangrove			
Estuarine			
Buffer zone of protected area			
Special area for protecting biodiversity			
Potential Environmental Impacts Will the Project cause...			
Loss of precious ecological values (e.g. result of encroachment into forests/swamplands or historical/cultural buildings/areas, disruption of hydrology of natural waterways, regional flooding, and drainage hazards)?			
Conflicts in water supply rights and related social conflicts?			
Impediments to movements of people and animals?			
Potential ecological problems due to increased soil erosion and siltation, leading to decreased stream capacity?			
Insufficient drainage leading to salinity intrusion?			
Over pumping of groundwater, leading to salinization and ground subsidence?			
Impairment of downstream water quality and therefore, impairment of downstream beneficial uses of water?			
Dislocation or involuntary resettlement of people?			
Disproportionate impacts on the poor, women and children, Indigenous Peoples or other vulnerable groups?			
Potential social conflicts arising from land tenure and land use issues?			
Soil erosion before compaction and lining of canals?			
Noise from construction equipment?			
Dust during construction?			

Screening Questions	Yes	No	Remarks
Waterlogging and soil salinization due to inadequate drainage and farm management?			
Leaching of soil nutrients and changes in soil characteristics due to excessive application of irrigation water?			
Reduction of downstream water supply during peak seasons?			
Soil pollution, polluted farm runoff and groundwater, and public health risks due to excessive application of fertilizers and pesticides?			
Soil erosion (furrow, surface)?			
Scouring of canals?			
Clogging of canals by sediments?			
Clogging of canals by weeds?			
Seawater intrusion into downstream freshwater systems?			
Introduction of increase in incidence of waterborne or water related diseases?			
Dangers to a safe and healthy working environment due to physical, chemical and biological hazards during project construction and operation?			
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 construction and operation?			
Community safety risks due to both accidental and natural hazards, especially where the structural elements or components of the project (e.g., irrigation dams) 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?			

## URBAN DEVELOPMENT PROJECTS

### Rapid Environmental Assessment (REA) Checklist

**Instructions:**

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

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

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

**Project Title:**

**Sector 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			

Screening Questions	Yes	No	Remarks
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.			
Deterioration of surrounding environmental conditions due 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 other vulnerable 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?			
Traffic disturbances due to construction material transport and wastes?			

Screening Questions	Yes	No	Remarks
Temporary silt runoff due to construction?			
Hazards to public health due to ambient, household and occupational pollution, thermal inversion, and smog formation?			
Water depletion and/or degradation?			
Overpaying of ground water, leading to land subsidence, lowered ground water table, and Stalination?			
Contamination of surface and ground waters due to improper waste disposal?			
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?			

## BUILDINGS

### Rapid Environmental Assessment (REA) Checklist

#### Instructions:

(i) The project team completes this checklist to support the environmental classification of a project. It is to be attached to the environmental categorization form and submitted to the

Environment and Safeguards Division (RSES) for endorsement by Director, RSES and for approval by the Chief Compliance Officer.

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

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

**Project Title:**


**Sector Division:**

Screening Questions	Yes	No	Remarks
A. Project Siting Is the project area adjacent to or within any of the following areas:			
Underground utilities			
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...			
Encroachment on historical/cultural areas?			
Encroachment on precious ecology (e.g. sensitive or protected areas)?			
Impacts on the sustainability of associated sanitation and solid waste disposal systems?			
Dislocation or involuntary resettlement of people?			

Screening Questions	Yes	No	Remarks
Disproportionate impacts on the poor, women and children, Indigenous Peoples or other vulnerable groups?			
Accident risks associated with increased vehicular traffic, leading to loss of life?			
Increased noise and air pollution resulting from increased traffic volume?			
Occupational and community health and safety risks?			
Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during project construction and operation?			
Generation of dust in sensitive areas during construction?			
Requirements for disposal of fill, excavation, and/or spoil materials?			
Noise and vibration due to blasting and other civil works?			
Long-term impacts on groundwater flows as result of needing to drain the project site prior to construction?			
Long-term impacts on local hydrology as a result of building hard surfaces in or near the building?			
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 safety caused by fire, electric shock, or failure of the buildings safety features during operation?			
Risks to community health and safety caused by management and disposal of waste?			

Screening Questions	Yes	No	Remarks
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?			

## GENERAL

### Rapid Environmental Assessment (REA) Checklist

**Instructions:**

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

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

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

**Country/Project Title:**

**Sector Division:**

Screening Questions	Yes	No	Remarks
A. Project Siting Is the Project area adjacent to or within any of the following environmentally sensitive areas?			
Cultural heritage site			
Legally protected Area (core zone or buffer zone)			

Screening Questions	Yes	No	Remarks
Wetland			
Mangrove			
Estuarine			
Special area for protecting biodiversity			
Potential Environmental Impacts Will the Project cause...			
Impairment of historical/cultural areas; disfiguration of landscape or potential loss/damage to physical cultural resources?			
Disturbance to precious ecology (e.g. sensitive or protected areas)?			
Alteration of surface water hydrology of waterways resulting in increased sediment in streams affected by increased soil erosion at construction site?			
Deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction?			
Increased air pollution due to project construction and operation?			
Noise and vibration due to project construction or operation?			
Involuntary resettlement of people? (physical displacement and/or economic displacement)			
Disproportionate impacts on the poor, women and children, Indigenous Peoples or other vulnerable groups?			
Poor sanitation and solid waste disposal in construction camps and work sites, and possible transmission of communicable diseases (such as STI's and HIV/AIDS) from workers to local populations?			
Creation of temporary breeding habitats for diseases such as those transmitted by mosquitoes and rodents?			
Social conflicts if workers from other regions or countries are hired?			

Screening Questions	Yes	No	Remarks
Large population influx during project construction and operation that causes increased burden on social infrastructure and services (such as water supply and sanitation systems)?			
Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during project construction and operation?			
Risks to community health and safety due to the transport, storage, and use and/or disposal of materials such as explosives, fuel and other chemicals during construction and operation?			
Community safety risks due to both accidental and natural causes, especially where the structural elements or components of the project are accessible to members of the affected community or where their failure could result in injury to the community throughout project construction, operation and decommissioning?			
Generation of solid waste and/or hazardous waste?			
Use of chemicals?			
Generation of wastewater during construction or operation?			

**Annexure 4: IR Checklist**

**Involuntary resettlement impact categorization**

Date:

<i>Project Data</i>			
Project No. / Project Title _____			
_____			
<b>Involuntary Resettlement Category</b>			
[ ] New      [ ] Re-categorization — Previous Category [ ]			
<input type="checkbox"/> Category A	<input type="checkbox"/> Category B	<input type="checkbox"/> <b>Category C</b>	<input type="checkbox"/> <b>Category FI</b>

<b>Comments by Project:</b>	
<b>Field Team:</b>	<b>Consultant:</b>
<b>Approval</b>	
<b>Prepared by:</b>  Date:	<b>Reviewed/Cleared by:</b>  NDRMF Safeguard Unit:  Date:

### Involuntary Resettlement Impact Categorization Checklist

Probable Involuntary Resettlement Effects (Please elaborate in the Remarks column)	Yes	No	Not Known	Remarks
<b>Involuntary Acquisition of Land</b>				
1. Will there be land acquisition?				
2. Is the site for land acquisition known?				
3. Is the ownership status and current usage of land to be acquired known?				
4. Will easement be utilized within an existing right of way (ROW)?				
5. Will there be loss of shelter and residential land due to land acquisition?				
6. Will there be loss of agricultural and other productive assets due to land acquisition?				
7. Will there be losses of crops, trees, and fixed assets due to land acquisition?				
8. Will there be loss of businesses or enterprises due to land acquisition?				
9. Will there be loss of income sources and means of livelihoods due to land acquisition?				
<b>Involuntary Restrictions on Land Use or on Access to Legally Designated Parks and Protected Areas</b>				

Probable Involuntary Resettlement Effects (Please elaborate in the Remarks column)	Yes	No	Not Known	Remarks
10. Will people lose access to natural resources, communal facilities and services?				
11. If land use is changed, will it have an adverse impact on social and economic activities?				
12. Will access to land and resources owned communally or by the state be restricted?				
<b>Information on Displaced Persons:</b>				
Any estimate of the likely number of persons that will be displaced by the Subproject? Yes				[ ] No [ ]
If yes, approximately how many? _____				
Are any of them poor, female-heads of households, or vulnerable to poverty risks? Yes				[ ] No [ ]
Are any displaced persons from indigenous or ethnic minority groups? Yes				[ ] No [ ]

**Annexure 5: IP Checklist**

**Indigenous peoples impact categorization**

Date:

<i>Project Data</i> Country / Project No. / Project Title _____ _____			
<b>Indigenous Peoples Category</b>			
[ ] New [ ] Re-categorization — Previous Category [ ]			
<input type="checkbox"/> Category A	<input type="checkbox"/> Category B	<input type="checkbox"/> Category C	<input type="checkbox"/> Category FI
Project requires the broad community support of affected Indigenous Peoples communities. <input type="checkbox"/> Yes <input type="checkbox"/> No			

*Comments by Project Team*

Field Team:

Consultant

*Approval*

**Prepared by:**

**Reviewed/Cleared by:**

NDRMF Safeguard Unit

Date:

Date:

## Indigenous Peoples Impact Screening Checklist

KEY CONCERNS (Please provide elaborations on the Remarks column)	YES	NO	NOT KNOWN	Remarks
<b>Indigenous Peoples Identification</b>				
1. Are there socio-cultural groups present in or use the project area who may be considered as "tribes" (hill tribes, schedules tribes, tribal peoples), "minorities" (ethnic or national minorities), or "indigenous communities" in the project area?				
2. Are there national or local laws or policies as well as anthropological researches/studies that consider these groups present in or using the project area as belonging to "ethnic minorities", scheduled tribes, tribal peoples, national minorities, or cultural communities?				
3. Do such groups self-identify as being part of a distinct social and cultural group?				
4. Do such groups maintain collective attachments to distinct habitats or ancestral territories and/or to the natural resources in these habitats and territories?				
5. Do such groups maintain cultural, economic, social, and political institutions distinct from the dominant society and culture?				
6. Do such groups speak a distinct language or dialect?				
7. Has such groups been historically, socially and economically marginalized, disempowered, excluded, and/or discriminated against?				
8. Are such groups represented as "Indigenous Peoples" or as "ethnic minorities" or "scheduled tribes" or "tribal populations" in any formal decision-making bodies at the national or local levels?				
<b>B. Identification of Potential Impacts</b>				
9. Will the project directly or indirectly benefit or target Indigenous Peoples?				
10. Will the project directly or indirectly affect Indigenous Peoples' traditional socio-cultural and belief practices? (e.g. child-rearing, health, education, arts, and governance)				

<b>KEY CONCERNS</b> (Please provide elaborations on the Remarks column)	YES	NO	NOT KNOWN	Remarks
11. Will the project affect the livelihood systems of Indigenous Peoples? (e.g., food production system, natural resource management, crafts and trade, employment status)				
12. Will the project be in an area (land or territory) occupied, owned, or used by Indigenous Peoples, and/or claimed as ancestral domain?				
<b>C. Identification of Special Requirements</b> <i>Will the project activities include:</i>				
13. Commercial development of the cultural resources and knowledge of Indigenous Peoples?				
14. Physical displacement from traditional or customary lands?				
15. Commercial development of natural resources (such as minerals, hydrocarbons, forests, water, hunting or fishing grounds) within customary lands under use that would impact the livelihoods or the cultural, ceremonial, spiritual uses that define the identity and community of Indigenous Peoples?				
16. Establishing legal recognition of rights to lands and territories that are traditionally owned or customarily used, occupied or claimed by indigenous peoples?				
17. Acquisition of lands that are traditionally owned or customarily used, occupied or claimed by indigenous peoples?				

**D. Anticipated project impacts on Indigenous Peoples**

Project component/activity/output	Anticipated positive effect	Anticipated negative effect
1. Not applicable	Not applicable	Not applicable

**Annexure 6: Project Appraisal Checklist**

## Project Appraisal Checklist

### Instructions:

- (i) The project team completes this checklist to support the economic evaluation/appraisal of the proposed project.
- (ii) This checklist focuses on Project costs and its appraisal.
- (iii) Answer the questions considering the contents of the proposal being submitted.

Feasibility and Option Analysis			
Is evidence presented that the project is technically feasible?			
Does the appraisal have a clear description of approach and methodology for economic analysis/appraisal?			
Is there project analysis under with and without project options?			
Please confirm that feasible project option have been studied and details included? (including estimates of the ENPV and EIRR)			
Demand Analysis			
Has sufficient research been undertaken to justify demand analysis, as part of the project analysis?			
Project Financial Costs			
Does the project financial costs have been adequately estimated and all information is fulfilled and provided in the format placed under Annex-3.			
Have depreciation, reserves, subsidies, taxes and any other such amount been accounted for in cost estimates? If ye, please provide details?			
Is the discount rate consistent with guidelines? (A 12% discount rate should be used in appraisal).			
Has the residual value been included in the cash flows? If yes provide details.			
Have the main economic indicators been given like ENPV, ERR, BC Ratio? (These indicators should be estimated as part of economic analysis)			
Is a financial sustainability section included in the Economic Analysis?			
Economic Analysis			
Are all prices net of taxes and other indirect taxes in the economic analysis?			
Are all financial values converted to economic prices by applying appropriate shadow prices where relevant?			

Does the project indicate a positive economic return? (a positive ENPV and a B/C ratio greater than unity)			
<b>Risk Assessment</b>			
Does the project include a sensitivity analysis on the critical variables?			
Are probability distributions constructed for the identified economic and financial critical variables, in projects addressing floods/ hazard with unknown time of occurrence?			
Using these probability distributions has the project been evaluated in view of its expected return (accounting for risk) rather than its mean return?			

	<p>Name of Individual Responsible for project Appraisal/Economic Evaluation:</p>  <p style="text-align: center;">_____</p>  <p>Signature of Person confirming all above issues have been checked:</p>  <p style="text-align: right;">_____</p>
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