Supplementary Appendix Climate Change Adaptation Report

Part 1: Climate Change Adaptation

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BASIC PROJECT INFORMATION							
Project Title: Rajasthan Renewable Energy Transmission Investment Program (RRETIP) Project 1				ector: Energy			
Location: (If possible GIS maps with location)				Estimated ADB Financing: \$62 million (ADB OCR), \$88 million (ADB CTF)			
Brief Description: (Max 200 words)			Im	Implementation Period:			
Western Rajasthan the state and nation	in the		enewab				
Climate Change Classification: ADB PCS: Adaptation							
SUMMARY of CLIMATE RISK SCREENING (Screening will be done using GIS and Remote Sensing techniques built through three sets of databases: Geological, Climate and Knowledge base. Other climate change assessment reports or databases can be used provided they are from reputable sources and appropriate scope.)							
A. Projected chan					,		
Temperature (°C) By 2030, annual mean temp within the project area is projected to increase on average by 1.8°C		Precipitation (mm) By 2030, annual precip in the project area is projected to increase by 25-30mm.	Sea Level Rise (masl): Others:				
B. <u>Climate Risks</u>	ı						
1. Flood	Υ	Locations of substations					
2. Cyclone	Υ	Strong winds can cause	damag	e to overhead trans	smission lines.		
C. Recommendati	<u>ions</u>						
Activities: 1. All planned substations must be designed and constructed free from flood risks. 2. Overhead transmission lines should be constructed to withstand strong winds.							
Risk Classification:	(Low,	Medium and High Risk) L	_ow				

DUE DILIGENCE

(Enumerate the type of analytical or fact finding activities conducted during project preparation)

Activities:

- 1. Risk screening was conducted to identify climate related risks to project infrastructure/components.
- 2. Consultation with technical experts and EA officials were held, factoring-in the results of the screening, and other possible climate change impacts to project design.

PROJECT DESIGN CHANGE OR ADAPTATION RESPONSE

(Describe key action items and budgetary allocations, and other response measures relevant to the project)

- 1. Transmission line detailed designs to include a safety factor permitting operations in a higher wind zone.
- 2. Sub-station on elevated locations, suitable drainage features to be factored in the detailed design.