

PILOT PROGRAM FOR CLIMATE RESILIENCE

Summary - Project Approval Request

1. Country:	Mozambique	2. CIF Project ID#:	XPCRMZ019A
3. Project Title:	Climate Resilience: Transforming Hydro-Meteorological Services		
4. Type of PPCR Investment	Public		
5. Funding Request for Project/Program::	<i>Grant:</i> US\$10 million	<i>Credit:</i> n/a	
6. Approved Preparation Grant	<i>Amount (USD):</i> n/a	<i>Date:</i> n/a	
7. Implementing MDB:	World Bank		
8. Other MDB Involvement	<i>MDB:</i> n/a	<i>Type of Involvement:</i> n/a	
9. National Project Focal Point:	<ul style="list-style-type: none"> · Mr. Xavier Agostinho Chavana, PPCR Focal Point, Ministry for Planning and Development (MPD, Ministério da Planificação e Desenvolvimento) · Ms. Guilhermina Amurane, PPCR Co-Focal Point, Ministry for Coordination of Environmental Affairs (MICOA, Ministério para a Coordenação da Acção Ambiental) 		
10. National Executing Agency for project:	<ul style="list-style-type: none"> · The National Directorate of Water (DNA, Direcção Nacional de Águas) Ms. Suzana Saranga Laforte, National Director · The National Institute for Meteorology (INAM, Instituto Nacional de Meteorologia) Moises Vincente Benessene, National Director 		
11. MDB PPCR Focal Point and Project Task Team Leader (TTL):	<i>Headquarters-PPCR Focal Point: Kanta Kumari Rigaud</i> <i>kkumari@worldbank.org</i>	<i>TTL: Marcus Wishart,</i> <i>mwishart@worldbank.org</i> <i>Co-TTL: Louise Croneborg</i> <i>lcroneborg@worldbank.org</i>	

12. **Project Description:**

The Project has four components:

Component A. Strengthening Hydrological Information Management

The component will support: strengthening and optimisation of the physical hydrological monitoring networks; improving quality control and standard enforcement; data management, modeling, forecasting and early warning systems and ICT; skills, capacities and training; product development; and financial sustainability.

Component B. Strengthening Weather and Climate Information Management

The component will support: strengthening and optimisation of the physical meteorological monitoring networks; improving quality control and standard enforcement; data management, modeling, forecasting and early warning systems and ICT; skills, capacities and training; product development; and financial sustainability.

Component C. Piloting resilience through delivery of improved weather and water information

The component will support pilot interventions to enable solutions for more effective inter-agency exchange, and delivery of hydro-meteorological products. The proposed pilots will include: early warning systems and flood forecasting in the Zambezi River basin; agro-information services in the Limpopo River basin; weather service alerts for artisanal fisheries in the Inhambane areas; and competitive small grant scheme for innovative hydro-met solutions.

13. **Objective**

The Project Development Objective is to strengthen hydrological and meteorological information services to deliver reliable and timely climate information to local communities and for economic development.

The PDO will be achieved by investments into optimised hydro-met monitoring networks, more effective data management and data exchange, as well as advancing forecasting capabilities. As such, modernisation of hydro-met information services which will feed into more robust early warning systems and the development of relevant, accurate and timely hydro-met information products to users. To achieve and sustain the PDO, the proposed Project will focus resources on training and skills-development of staff and institutional strengthening.

14. **Expected Outcomes:**

The Project is expected to achieve the following key outcomes:

- Consolidate the hydrological and meteorological information base to produce more accurate, relevant and timely data and forecasts on water and weather. This information base will enable more robust operation and decision making on water resources and weather conditions (as it creates the value chain foundation of hydro-met services);
- The Government of Mozambique, the private sector and the public will be better equipped to mitigate the impacts of extreme climate events, use water and weather forecasts for improved economic output and build resilience against climate change in both the near future and the longer-term.

15. Key Results and Indicators for Success (consistent with PPCR Core indicators):		
Result	Indicator	
Improved relevance to end-users	% improved accuracy of hydrological and meteorological forecasts	
Reduced losses resulting from more time for preparation and contingency planning when facing extreme events.	% longer lead-time of severe hydrological and meteorological forecasts in early warning systems	
Better value to end users of services.	% increased satisfaction of surveyed user-groups among media, dam operators, aviation and farmers	
Building financial sustainability of hydro-met services.	Changes in budget allocations at national and possibly sub-national level of government to take into account effects of CV & CC. (PPCR indicator)	
Involvement of users in pilot activities benefiting from improved delivery of hydro-met services.	Number of people supported by the PPCR to cope with the effects of climate change. (PPCR Core indicator)	
16. Budget:		
Expenditures ¹	Amount (USD) - estimates	
Civil Works and Goods	US\$4.8 million	
Consulting Services, Training, Workshops and Operating Costs	US\$3.2 million	
Goods, Service, Training, Workshop, Operating Costs	US\$1.3 million	
Contingencies (max. 10%)	US\$0.7 million	
Total Cost	US\$10 million	
Co-Financing ² :	<i>Amount (USD million):</i>	<i>Type of contribution:</i>
• Government	TBD	In kind (taxes, office space, government staff)
• Nordic Development Fund	US\$5.7 (Euro 4.5)	Grant
• Private Sector		
• Others (please specify)		
Co-Financing Total	n/a	
17. Project/Program Timeframe		
Expected Board: March 05, 2013		
Expected Mid-Term review date: June 01, 2016		
Expected Project/Program closure ³ date: December 30, 2018		

¹ Expenditure categories should be provided by the MDBs based on own procedures.

² This includes: in-kind contributions (monetary value), MDB loan or grant, parallel financing, etc.

³ Financial closure date

18. **Role of other Partners involved in project/program:** The Pilot Program for Climate Resilience (PPCR) is implemented through a partnership of the World Bank, ADB and IFC. In addition, under this specific project, strong partnerships will be established with the UNDP, the WMO (including the Global Framework for Climate Services), Finland (FMI), USAID, and others who have expressed willingness to support priority activities for climate resilience coordination.

Implementation Arrangements (incl. procurement of goods and services):

The implementation arrangements are aligned to the national agencies responsible for hydro-met services: the DNA, the five ARAs and INAM. In the Ministry of Public Works and Housing (MOPH, Ministério das Obras Públicas e Habitação), the National Directorate of Water (DNA, Direcção Nacional de Águas) and the five Regional Water Authorities (ARAs, Administrações Regionais de Águas) are responsible for water resources management. The National Institute for Meteorology (INAM, Instituto Nacional de Meteorologia), within the Ministry for Transport and Communication (MTC, Ministério dos Transportes e Comunicações) is mandated to generate and coordinate the national meteorological services in all of Mozambique's ten provinces and 128 districts.

Overall coordination for this project and the other four PPCR projects will be provided by the Ministry of Planning and Development (MPD) as the focal Ministry for the PPCR, in collaboration with the Ministry for Coordination of Environmental Affairs (MICOA) who are the co-focal points for the PPCR and also lead the mainstreaming of climate change.

Project implementation arrangements. DNA will be responsible for the administration of the project and associated fiduciary and reporting requirements. To implement the technical aspects of the project, DNA and INAM have designated Project Leaders and Activity Coordinators (ACs), and in the ARAs there will be designated Activity Coordinators (which are also the ACs for the NWRDP). In many of the project activities, the individual agencies will have separate responsibilities reflecting their respective policy and legal mandates. For those activities that are shared or where there are mutual benefits (such as ensuring WMO standards or establishing data sharing platforms) the Project Leaders and Activity Coordinators will come together in a technical Working Group.

Hydro-Met Working Group. This inter-ministerial group has been established during preparation and consolidated through a mutual Memorandum of Understanding. Each agency has also designated one Focal Point each to facilitate cooperation across the institutions. On the request of the implementing agencies, the routines and purpose of the Working Group will be further consolidated to ensure the necessary inter-agency coordination, adherence to roles and responsibilities, enforcement of quality standards across agencies, and to undertake shared activities such as training. To support the Working Group with strategic matters, a Hydro-Met Management Committee would be established where higher-level decisions can be agreed to guide the optimisation of the combined national hydro-met systems. The possibilities of shared facilities and equipment to the benefit of key implementation agencies will be explored.

The proposed stand-alone project will be implemented in conjunction with the National Water Resources Development (NWRDP - IDA US\$70 million, P107350) which is already under implementation by the above agencies apart from INAM.

Procurement and Financial Management. Procurement and financial management of the project will be done through the PAMT established under the National Water Resources Development Project.

Procurement for the proposed project will be carried out in accordance with the World Bank's "Guidelines: Procurement of Goods, Works and Non-consulting Services under IBRD Loans and IDA Credits and Grants by World Bank Borrowers" published by the World Bank in January 2011 ("Procurement Guidelines"), in the case of goods, works and non-consulting services; and "Guidelines: Selection and Employment of Consultants under IBRD Loans and IDA Credits and Grants by World Bank Borrowers" published by the World Bank in January 2011 ("Consultant Guidelines") in the case of consultants' services, and the provisions stipulated in the Legal Agreement.

19. **Other Information:**