February 21, 2013

Response from IBRD on Approval by Mail: PPCR Mozambique: Approval of Additional Resources for Climate Resilience: Transforming Hydro-Meteorological Services Project (IBRD)

Dear Andrea,

In response to the UK's comments below, please find attached the "request for approval of additional resources" with the information requested. All clarifications are in red font. The PAD (submitted with the request for approval and also attached here) has more details on the revised components in light of the additional US$ 5 mill and also on the results framework,
Thank you in advance for transmitting this as needed.

Kind regards,

Nancy Chaarani-Meza
Environmental Specialist, Climate Policy Team
Climate Policy & Finance Department, The World Bank

MOZAMBIQUE CLIMATE RESILIENCE: TRANSFORMING HYDRO-METEOROLOGICAL SERVICES (CIF ID: XPCRMZ019A; IBRD ID: P131049)

PILOT PROGRAM FOR CLIMATE RESILIENCE **Summary - Project Concept Note for the Use of Additional PPCR Resources**			
1. **Country/Region**:	Mozambique	2. **CIF Project ID#:**	XPCRMZ019A
3. **SPCR endorsement date:**	June 29, 2011		
4. **Project/Program title:**	Climate Resilience: Transforming Hydro-Meteorological Services		
5. **Type of PPCR investment**	*Private:*	**Public**	*Mixed:*
6. **Funding request (in USD million total) (including preparation grant)**:	*Grant:US$5 million (in additional to the already approved US$10 million for this project)*	*Loan:*	

7. **Financing will be used for:**	a - topping up an approved PPCR project/program ■ b - topping up a PPCR project/program in preparation for Sub-Committee approval ☐ c- a new PPCR project/program[1] ☐	
8. **Implementing MDB:**	World Bank	
9. **National executing agency[2]:**	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	
10. **MDB PPCR focal point and project/program task team leader (TTL)**:	*Headquarters-PPCR Focal Point: Kanta Kumari Rigaud* *kkumari@worldbank.org*	*TTL: Marcus Wishart,* *mwishart@worldbank.org* *Co-TTL: Louise Croneborg* *lcroneborg@worldbank.org*

11. **Project/Program Description** (including objectives and expected outcomes)**:**

This request is for the additional allocation for Mozambique under the Pilot Program for Climate Resilience (PPCR), in the order of US$5 million, be added to the Pilot investment *"Mozambique Climate Resilience: Transforming Hydrological and Meteorological Services Project"* that was recently approved by the PPCR Sub Committee on January 29, 2013.

This additional financing follows from an urgent ongoing situation in the country in response to flooding in the Limpopo River basin – which has resulted in the displacement of over 150,000 people particularly in the areas of Chokwé and Xai-Xai. The Government of Mozambique has recognised the urgent need for scaled up resources to enable it to better use and integrate regional and transboundary water and weather information into national predictions and responses; provide earlier warnings to vulnerable communities – particularly in the areas currently experiencing the aftermath of large floods as well as the lower Zambezi River basin; and scale up of structural water management plans.

The description of the project below will emphasize where and how these additional resources will allow delivery of a more responsive project that integrates climate resilience more directly.

The Project Development Objective (PDO) is to strengthen hydrological and meteorological information services to deliver reliable and timely climate information to local communities and to support economic development. The Project has three components. The first and second components will strengthen hydrological and meteorological information services respectively, and the third will pilot the effective exchange and delivery of hydro-met information services to specific user-groups. The proposed components and activities are closely associated and mutually reinforcing with the ongoing National Water Resources Development Project (NWRDP;

[1] Same as above.
[2] Can be Government agency or private sector firm

P107350) and two policy actions under the IDA-supported Climate Change Development Policy Lending Series (approved 24 January 2013).

Component A: Strengthening Hydrological Information Management

Original US$10 million PPCR Allocation: US$6.20

Additional US$5 million PPCR Allocation: US$2.50

Total PPCR Allocation: US$8.70

Component A will focus on improving hydrological information services by modernising monitoring and forecasting of water conditions, as well as developing the content and delivery of hydrological information products. The component consists of the following activities: A1) Institutional strengthening and capacity building/training; A2) Strengthening quality control and standards for the collection and processing of hydrological data including river stage and flows, rainfall and evaporation; A3) Optimising and reinforcing the physical hydrological monitoring networks through rehabilitation, upgrading and standardisation of monitoring stations; A4) Transmission, management and accessibility of hydrological data through the development of an integrated hydro-met information system with ICT support; A5) Improved hydrological modelling, forecasting and early warning capacity with strengthened GIS decision support tools, particularly for flood prone areas; and A6) Development and improved access to hydrological information products.

Component B: Strengthening Weather and Climate Information Management.

Original US$10 million PPCR Allocation: US$1.80

Additional US$5 million PPCR Allocation: US$2.00

Total PPCR Allocation: US$3.80

Component B will focus on improving meteorological information services by modernising monitoring and forecasting of weather conditions, as well as developing the content and delivery of meteorological information products. The emphasis of Component B is to consolidate and focus the existing meteorological services as a way to secure the foundation for the weather-information value chain; whilst in parallel build long-term sustainability and introduce opportunities for modernisation. The component consists of the following activities: B1) Institutional strengthening aligned with the INAM Strategic Plan 2013-2017; B2) Organisational development and training; B3) Upgrading and implementation of a Quality Management System (QMS) for INAM; B4) Optimising and reinforcing the physical meteorological monitoring networks through rehabilitation, upgrading and standardisation of monitoring stations; B5) Transmission, management and accessibility of meteorological data through the development of an integrated hydro-met information system with ICT support; B6) Modernised weather prediction and forecasting, extreme event detection and early warning capacity with strengthened GIS decision support tools; and B7) Development and improved access to meteorological information products.

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

Original US$10 million PPCR Allocation: US$2.00

Additional US$5 million PPCR Allocation: US$0.50

Total PPCR Allocation: US$2.50

Component C will pilot more effective delivery of hydro-meteorological information to key users. Overall, the pilots will test solutions to improve the exchange and delivery of tailored hydro-met information, will be scaled to the available resources, and will capitalise on the opportunities offered by partnering with other public or private agencies. Four pilot activities have been identified: C1) Delivery of more accurate flood forecasts with more lead time in INGC's early warning systems for remote, flood-prone communities in the Zambezi River

basin and in the Limpopo and Incomati River Basin; C2) Dissemination of tailored weather and water forecasts for farmers in the Gaza and Inhambane Provinces (Limpopo); C3) Enhanced access to weather information for ports, commercial maritime and communities involved in artisanal fisheries in the coastal areas of Inhambane; and, C4) Innovations for inter-agency delivery of data to enhance service delivery by INAM, DNA and the ARAs.

12. **Activities to be financed from the additional resources:**

The original allocation of US$10 m was reviewed and approved January 29, 2013 by the PPCR Sub-Committee. Subsequently, the Government of Mozambique decided to allocate the additional allocation for Mozambique (US$5 m) to the proposed Project.

The project structure will not change with the additional resources, but rather the additional resources will be designated for:

- Include vulnerable communities and populations in the Incomati and Limpopo River floodplains as part of the pilot activity of Component C1 to relay more accurate, relevant and faster warnings on impending floods (C1). *Additional PPCR funding: US$0.5 million*
- More ambitious knowledge sharing and training of the management and analysis of rainfall/river information among staff at DNA and ARAs, as well as associated government institutions (A1). *Additional PPCR funding: US$0.4 million*
- Scaling-up of the physical equipment needed for improving the long-term monitoring network for observation of river flows and weather events in strategic locations across Mozambique, in particular for extreme events (A3, B4). *Additional PPCR funding: US$1.7 million*
- Expanding the ability of DNA, ARAs and INAM to access and analyse information from river and weather conditions in neighbouring countries and the region, and integrating such information into national modelling and prediction processes (A2, A4, B5). *Additional PPCR funding: US$0.7 million*
- Developing targeted flood forecasting interventions at DNA and the ARAs, such as spatial and topographical information base coupled with analysis of appropriate structural interventions to mitigate and control rapid water flows – particularly in the floodplains of the Zambezi, Incomati and Limpopo River basins (A5, B6). *Additional PPCR funding: US$1.1 million*
- Improve the access to more relevant, timely and accurate information on water and weather for users, particularly for early warnings on impending extreme conditions (A6, B7). *Additional PPCR funding: US$0.6 million*

13. **Briefly summarize how the proposed project further advances the objectives of the endorsed SPCR:**

The SPCR for Mozambique specifically aims to promote climate resilient growth strategies, promote transformational reform and accelerate knowledge sharing of lessons learned.

The additional resources from the PPCR will in particular allow for i) scale up interventions in training and monitoring and thereby help build a more long-term institutional and infrastructure hydro-met capacity coupled with further emphasis on knowledge sharing in Mozambique, and ii) scaling-up actions to improve flood impact analysis including the development of flood forecasting models that can be used to plan flood responses, remedial actions and floodplain infrastructure to minimize and mitigate the losses incurred by extreme events.

The original project design will not change but rather, the impact of targeted activities as listed in point 12, will enable a greater scale of impact to be achieved and expand the scope for scalable and transformational impacts at national level.

14. **Expected Key Results from the use of the new resources**

Result	**Indicators (consistent with approved PPCR Results Framework)**
Increased uptake of hydro-met information and subsequent improved decision making amongst users in the public, private and academic sectors. Survey of delivery and use of information is included in Component C.	Extent to which vulnerable households, communities, businesses and public sector use improved PPCR-supported tools, instruments, strategies, activities to respond to CV and CC. (PPCR Core Indicator) *Revised indicator in line with Revised PPCR Results Framework Jan 2013 – revised to 70% increased uptake in climate information (based on evaluation surveys of pilot activities and users).*
The number of beneficiaries is expected to increase.	Number of people supported by the PPCR to cope with the effects of climate change (PPCR Core Indicator) *Revised indicator in line with Revised PPCR Results Framework Jan 2013 – from 900 to 6,000 beneficiaries by end of year 2018 (60% estimated female.)*
A robust Integrated Information Platform will enable different government agencies in sharing hydro-meteorological data, merged with spatial/GIS tools and integrated with existing and planned disaster management and response tools.	Evidence of strengthened government capacity and coordination mechanism to mainstream climate resilience (PPCR Core Indicator) *New indicator in line with Revised PPCR Results Framework Jan 2013 – expected results in effective coordination of hydro-met working group and more effective use of hydro-met information in the disaster management coordination bodies.*
Improved lead times for flood warning compared with 2007 baseline	Lead times for flood warnings changes from 2 days (in baseline year) to 5 days (by 2015). *Indicator for DPO Climate Change where increased leadtimes are the objective.*

15. **Expected Co-Financing for the project or program[3]:**

	Amount (USD million):	*Type of contribution:*
• Government	US$2.60	In-kind

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

• MDB	US$0.95	IDA, from National Water Resources Development Project & GFDRR
• Private Sector (please specify)	n/a	
• Bilateral (please specify)	n/a	
• Others (please specify)	US$6.00	Nordic Development Fund Grant
Total	US$9.55	

16. **Expected Project/Program Timeframe**

Expected Sub-Committee approval date[4]: Monday February 11, 2013

As an exception, the Government of Mozambique and the World Bank project team is requesting a fast-track approval from the PPCR SC for the additional resources due to three reasons:

i) Recent floods in southern Mozambique along the Limpopo and Incomati rivers have displaced over 150,000 people with the exact loss of lives, livelihoods and infrastructure yet to be estimated. The Government of Mozambique has specifically requested to the regional Vice President of the World Bank to expedite international community support for building longer-term resilience to extreme weather events, especially flooding. This request for additional financing could provide timely support to build this resilience by putting in place improved hydro-meteorological systems that will serve the country as a whole and the flood prone areas of the Incomati, Limpopo and Zambezi valleys in particular.

ii) The original project was very recently approved by the PPCR SC on January 29, 2013 (project design remains the same with certain increase in resources for building flood forecasting and mitigation capacity in vulnerable areas). However, the recent decision by GoM to allocate the additional financing available from PPCR for further strengthening of hydro-meteorological services, and the high priority now attached to putting in place longer term resilience, given the ongoing flooding crisis, provides a crucial window of opportunity for fully integrating the additional financing into the hydro met pilot – now at an advanced stage of preparation.

iii) GoM requests that the PPCR sub-committee expedites review and approval of the additional financing request in order to secure its full integration prior to the completion of Project Appraisal, Negotiations and presentation for the Bank's approval prior to the end of March.

17. **Other Information:**

[4] Only for new projects or projects in preparation for Sub-Committee approval