

Final Aide Memoire
Zambia: Mission for the Preparation of a Strategic Pilot Program for
Climate Resilience (SPCR)
October 25 - November 9, 2011

Introduction

1. A Joint Preparation Mission for the Zambia Pilot Programme for Climate Resilience (PPCR) took place from October 25 to November 9, 2011. The mission was led by the Ministry of Finance and comprised of representatives from the Ministries of Agriculture and Livestock, Ministry of Transport, Works, Supply and Communication, Roads Development Agency, Department of Meteorology, Ministry of Chiefs and Traditional Affairs, the Disaster Management and Mitigation Unit, the National Heritage Conservation Commission, the International Bank for Reconstruction and Development (IBRD), the African Development Bank (AfDB), the International Finance Corporation (IFC), the United Nations, the Zambia Red Cross Society, the Zambia Civil Society Network, Green Enviro-Watch, World Fish, Lloyds Financials, Snow Systems, and the African Carbon Credit Exchange (ACCE). The list of participants is attached as Annex A.
2. The Joint Mission followed the endorsement of the Zambia Strategic Pilot Programme on June 29, 2011 by the PPCR Sub-Committee which initiated the process for preparing three (3) investment projects to be administered through the IBRD, AfDB and the IFC. These investments projects include:
 - **Investment Project 1** – *Strengthening Climate Resilience in Zambia and Barotse Sub-Basin* will be administered through IBRD. The objective of the project is to provide strategic support to Zambia's Climate Change Programme, while implementing participatory adaptation and climate resilient infrastructure in the Barotse sub-basin of the Zambezi basin;
 - **Investment Project 2** – *Strengthening Climate Resilience in the Kafue River sub-basin* will be administered through the AfDB. It will focus on participatory adaptation and climate-resilient infrastructure in the Kafue sub-basin of the Zambezi basin;
 - **Investment Project 3** – *Private Sector Support to Climate Resilience* will be implemented by the IFC. It will focus on priority private sector support to the two sub-basins, in the areas of micro-finance, weather-indexed insurance, and information (ICT) support.
3. The mission held discussions in Lusaka during the week of October 25-28, and November 7-9, 2011 and visited the sub-basins of Kafue and Barotse during October 31-November 3, 2011. The mission is very grateful to the Government of the Republic of Zambia, the Barotse Royal Establishment, the national stakeholders, and the Provincial and District Authorities of Southern and Western Provinces - including the Districts of Mongu in the Western Province,

and Kalomo, Namwala and Itezhi-tezhi in the Southern Province- for all the courtesies received.

4. The specific objectives of the mission included:
 - (i) Assisting the Government in developing further the institutional arrangements for climate change activities, in particular the establishment of the Secretariat,
 - (ii) Finalizing the processing of the Project Preparation Grant (PPG) for Phase II of the PPCR,
 - (iii) Finalizing the request for extension of Phase I of the PPCR, and
 - (iv) Developing and finalizing the 2012 plans for PPCR activities .
5. This draft Aide Memoire summarizes the main conclusions of the mission, a summary of which was discussed at a wrap-up meeting held with the Secretary to the Treasury, Mr. Fredson Yamba, on November 4, 2011. The mission Terms of Reference and schedule are included as Annex B.

Key Findings and Conclusions of the Mission

A. Institutional Arrangements

6. The Ministry of Finance, in collaboration with the Ministry of Local Government, Housing, Early Education and Environmental Protection (MLGHEEEP), the Disaster Management and Mitigation Unit (DMMU), and other key stakeholders, is currently facilitating the establishment of a National Climate Change Secretariat, an umbrella body that would provide a coordinating function to ongoing and future climate change programmes, plans, policies and projects (including adaptation, low carbon development and climate-related disaster risk management). The Secretariat would respond to a Committee of Permanent Secretaries and would be responsible for helping set up a future National Climate Change and Development Council or equivalent body. It would be assisted by multi-stakeholder working groups (or Platforms) composed of members from the Government, civil society and private sector.
7. The idea of having a centralized national coordinating mechanism for Climate Change was initiated through public consultations during the preparation of the National Climate Change Response Strategy (NCCRS). Given the number of different stakeholders currently engaged on climate change related initiatives in Zambia (about 75), and the government and donor pledges amounting to about US\$ 650million, the NCCRS recognized the need for an autonomous institution – the proposed National Climate Change and Development Council - to coordinate and harmonize the different climate change activities in Zambia. The Strategy proposed various modalities for the ideal structure which the Committee of Permanent Secretaries under the chairmanship of the Secretary to the Treasury and advice from Cabinet should eventually formalize. In the interim, the National Climate Change Secretariat would help coordinate climate change programs and projects and facilitate further consultations on the establishment of these long-term institutional arrangements.
8. With the above in mind, the Ministry of Finance invited key institutions (MLGHEEEP, DMMU, MAL and Cabinet Office, amongst others) to discuss the harmonization of this structure. A dedicated multi-sectoral Government team helped draft the Terms of Reference for the

Secretariat in September 2011, which were circulated to other stakeholders (including Cooperating Partners) for review. During the mission, the working team incorporated comments received and finalized the draft TORs. The TORs provide for attachment and/or secondment of seven (7) key strategic technical positions from the various key Ministries (Ministry of Finance; MLGHEEP; DMMU; Ministry of Agriculture and Livestock; Ministry of Transport, Works and Supply and Communication; and Zambia Meteorological Department). As part of this process, three staff members from various institutions have already been identified to serve on the Secretariat and the process to formalize their official secondment/attachments is currently under way.

9. The urgency of establishing the Secretariat stems from the Government's need to coordinate effectively the growing programme of climate change in Zambia, and enable the Secretariat to play an active role in managing among others the PPCR. The urgency is also necessitated by the pending expiry of the mandate and funding for the Climate Change Facilitation Unit in March 2012. The mission discussed this matter with the Secretary to the Treasury on November 4, 2011 and clarified the proposed distribution of responsibilities for financing of the Secretariat. While the PPCR Phase I could help support incremental operating costs and supporting positions for a period of up to two (2) years, the 7 core and strategic positions would be Government secondments and attachments from the various Ministries. In order to preserve its independence and the multi-sectoral nature of its mandate, the Secretariat would be established in a neutral place in Lusaka. **It was agreed that MoF would consider the budgetary needs to take care of and supplement salaries for the 7 attached staff, and expedite the establishment of the Secretariat. In addition, the TORs would be circulated to key Government stakeholders for their final review and endorsement.**

B. Action Plan for PPCR Phase I Extension

10. Phase I of the PPCR was originally scheduled to close on December 31, 2011. However, many of the original activities – including climate change mainstreaming, analytical work, institutional strengthening and public awareness – remain relevant and need to continue to be supported through Phase II. Based on indications from the Government that they wished to extend Phase I, mission participants helped prepare an Action Plan to extend Phase I up to September 30, 2013 (by which time it is expected that Phase II will have started). The proposed action plan was discussed at length and endorsed by mission members. It will constitute the basis for the Ministry of Finance formal request for extension. **This request, to be finalized prior to November 25th, 2011, needs to be accompanied by (a) the final action plan for extension; (b) the latest progress and financial management report for Phase I; and (c) a revised Procurement Plan.**

C. Terms of Reference for Phase II Assessments and Studies

9. As part of the presentation of the Strategic Programme for Climate Resilience in Cape Town in June 2011, the PPCR Sub-Committee approved a total of US\$ 2million as a preparation grant for investment projects 1 and 2 (see paragraph 2). The Grant will be executed by the Ministry of Finance with procurement assistance provided through the Road Development Agency. **The Grant Agreement is currently being drafted and is expected to be finalized and signed by January 2012.** It will finance the baseline, feasibility, design and safeguard studies to be used for preparing the projects during 2012. These studies include:

- (i) A Strategic Environmental and Social Assessment (SESA), complemented by an Environmental and Social Management Framework and Resettlement Policy Framework (funded through the extension of Phase I)
 - (ii) Environmental and Social Impact Assessments (ESIAs) focused on the proposed Climate Resilient investments in the two sub-basins.
 - (iii) A detailed feasibility and engineering design study, focused also on the Climate Resilient investments. This study would be co-financed with RDA.
 - (iv) A baseline assessment, leading to the development of the programme's monitoring and performance indicators.
 - (v) Detailed preparation of the Participatory Adaptation component.
 - (vi) Final programme design, including Operational Manual and investment documents.
10. The selected infrastructure for the detailed feasibility and engineering design includes:
- (a) *Under Investment Project 2*: Rehabilitation of the Kalomo to Dundumwenzi Road (75.25km), Itezhi-Tezhi to Dundumwezi through Ngoma and nanzila (124km) and the Namwala to Itezhi-tezhi D180 (52km) bringing a total of 251.25km of roads to be upgraded and re-designed to climate resilient standards (including floods, droughts and increased temperature). These include key access roads in the Kafue sub-basin leading to and from the Kafue National Park; and
 - (b) *Under Investment Project 1*: Rehabilitation and strengthened management of priority canals and waterways in the Barotse sub-basin, including (a) Muoyowamo Canal (28 km), Lubitamei Canal (87 km), Ng'ombala Canal (43.7 km), Musiamo Canal (131 km) and the Fisheries Canal (9 km). Investments in the target canal are expected to involve an initial period of community organization and, once water use and operation and maintenance is agreed, targeted investments (including dredging, rehabilitation and stabilization of embankments, and erosion control measures).
11. Both the detailed feasibility and engineering studies as well as the Environmental and Social Impact Assessments will need to be carried out in close collaboration with local authorities, and with attention to the complex cultural, hydrological and geomorphological conditions of the sub-basins. Since mobilization of these studies will condition the timing of Phase II investments, it is urgent that the consultants be procured as soon as possible. **The mission reviewed the draft advertisements and terms of references for the key studies and recommends that the advertisements be posted and the TORs finalized by November 28th, 2011.** Provided procurement proceeds as scheduled, the feasibility and environmental and social studies would be mobilized around April 2012, and be completed around September-October 2012.

C. Adjustment to Estimated Costing of Investment Projects for Phase II

12. During the presentation of the SPCR to the PPCR Sub-Committee at Cape Town, the Zambia delegation requested a total funding of US\$50 million in grant resources and US\$60 million in concessionary credit. However, due to current limitations on donor pledges, the PPCR Sub-Committee endorsed a total grant amount of US\$40-50 million and a concessionary credit amount of up to US\$36 million – or a shortfall of US\$24 million vis-à-vis the original request.
13. The original SPCR submission earmarked an amount of US\$15 million in concessionary credit for Investment Project 3 (the private sector Investment Project administered through IFC). Since

then, IFC informed the Government and MDB partners that in order to prepare the private sector investments, 10 percent of this amount needed to be in the form of grant.

14. These two issues require an adjustment to the original amounts included in the Zambia proposal. Following mission meetings between the Government and the three MDBs, the following is recommended:
 - Investment Project 1 would be reduced by US\$16 million in concessionary credit, by dropping the rehabilitation of the Luso-Imusho road.
 - Investment Project 2 would be reduced by US\$8 million in concessionary credit, by dropping the rehabilitation of the Kafue-Chanyanya road.
 - The US\$1.5 million shortfall in grant financing for Investment Project 3 would come from two sources: (a) a reduction of US\$1 million for the Climate Information sub-component in Investment Project 1; and (b) a reduction of US\$0.5 million in the Participatory Component of Investment Project 2.

15. As such, the readjusted investment amounts for the PPCR Phase II projects would be as follows:
 - **Investment Project 1– *Strengthening Climate Resilience in Zambia and Barotse Sub-Basin*** – is estimated at US\$34 million, including US\$29 million in grant, and US\$5 million in concessionary credit, distributed as follows:
 - A. Strategic Support to Zambia’s Climate Change Programme (US\$13 million grant)
 - B. Participatory Adaptation (US\$10 million grant)
 - C. Climate Resilient Infrastructure (US\$11 million, of which US\$6 million grant and US\$5 million concessionary credit, with the grant amount dedicated to community organization and policy support)

 - **Investment Project 2 - *Strengthening Climate Resilience in the Kafue River Basin*** – is estimated at US\$37 million, including US\$19.5 million grant, and US\$17.5 million in concessionary credit, distributed as follows:
 - A. Participatory Adaptation (US\$19.5 million grant)
 - B. Climate Resilient Infrastructure (US\$17.5 million concessionary credit)

 - **Investment Project 3 - *Private Sector Support to Climate Resilience*** - would amount to US\$15 million, including US\$1.5 million in grant, and US\$13.5 million in concessionary credit

16. The final exact amounts will only be determined once the investment projects are fully prepared and submitted for final approval to the PPCR Sub-Committee and the respective Boards of the Multilateral Development Banks.

D. Potential New Programme Partners

17. As mentioned before, the PPCR has attracted the interest of more than 75 stakeholders currently working on climate change issues in Zambia. Several new potential partners have since expressed interest in co-financing the program. They include:

- The German Development Corporation who are potentially interested in investing up to Euro 12 million in climate information and development linked to water management. The focus of this assistance is in the process of being designed.
 - The Nordic Development Fund whose are potentially interested in allocating Euro 4 million to help Zambia develop climate resilient infrastructure standards.
 - The Government is preparing a Low-Carbon Emissions Development Programme, funded through the EU and UNDP, estimated at US\$1million.
 - There are also possibilities to link some of the on-going AfDB projects to Investment Project 2 (Kafue Basin).
18. **The continued and growing interest of development partners in Zambia's Climate Change Programme further highlights the need to establish the National Climate Change Secretariat.**

E. Civil Society Participation

19. Green EnviroWatch, together with COMESA, SADC and EAC Secretariat, organized a Regional Youth Conference on Climate Change from October 18-21, 2011, involving delegates from 24 countries. The PPCR sponsored 48 youth delegates from the Kafue and Barotse sub-basins. They subsequently formed a network of youth champions, managed through the Zambian Red Cross. The intention is that the youth champions be trained and motivated to play a key role in the sensitization, and participatory climate resilient planning in their communities.
20. As part of the extension activities of the PPCR Phase I, it was agreed that the Zambian Civil Society Network, in collaboration with the Zambian Red Cross and Green EnviroWatch (as well as any other relevant civil society partners) would help the programme implement community and media awareness, sensitization, and crowdsourcing information sharing in target districts, thereby initiating the process of participatory planning. **The sensitization workshops and crowdsourcing training are expected to start around January-February 2012.**

F. Key Feedback from Visits to Kafue and Barotse Sub-Basins

Field visit to Kafue Basin:

21. The Mission led by the MoF visited three districts in the Southern Province (Kalomo, Namwala and Itezhi-Tezhi) to carry out a financial and institutional assessment aiming at understanding the level of preparedness of the districts in receiving and disbursing funds. The mission also carried out assessment of three potential roads that would be upgraded through PPCR funding. The assessment was restricted to three roads under the SPCR, namely Kalomo –Dundumwezi Road (75km), Namwala – Shezongo Road (69km) and M9 – Itezhi-Tezhi Road (103km). The objective was to assess the condition of the existing road infrastructure.
- (i) **Kalomo – Dundumwezi Road** which was found to be in a fair condition, is an important link which once upgraded to all-weather climate resilient status will result in a considerable improvement in mobility between the towns, ease transportation of goods and agriculture products and also largely contribute to the establishment of a tourism corridor linking Livingstone to the Kafue National Park. This should improve the overall economic growth in

the area, thus supporting the Government's strategy of poverty reduction and upgrading of roads to appropriate standards.

- (ii) **Namwala – Shezongo Road.** The mission found that the Namwala – Shezongo road was currently not being used by motorists and upgrading the road to all weather, double bituminous surface would require a significant investment, which may not be economically viable. Furthermore, before the road could be upgraded, it would be vital to establish the social and economic impact of such a road, given that the road passes through an important pastoral ground. Cattle herding is one of the main economic activities for the ILA people, residing in this area. Finally, the mission found that there were other shorter and economically viable routes to the Kafue National Park such as, via Itezhi-Tezhi and Ngoma (ZAWA entrance), which could be considered for upgrade.
 - (iii) **M9 – Itezhi-tezhi Road.** The M9- Itezhi Tezhi road is an important link which also passes through a Game Management Area. Improvement of this road will not only ease transportation of goods and agriculture products but will also largely contribute toward an increase of tourists wishing to explore the area, specifically the Kafue National Park and Itezhi Tezhi Dam in the Kafue River.
22. During the meetings with local authorities the need for community consultation and sensitization was strongly emphasized strongly to enable build a strong ownership of the project among the local communities. In addition, given the short duration of the field visits, the mission carried out the financial and institution assessment for 3 out of 16 districts. **It was agreed that the PPCR team and the civil society partners would schedule sensitization and training workshops at the district/community levels, starting from January-February 2011 (see para. 20) as well as the institutional assessment of the remaining districts.**
23. **The mission recommends that the PPCR investments in the Kafue Basin focus on the following roads: Rehabilitation of the Kalomo to Dundumwenzi Road (75.25km), Itezhi-Tezhi to Dundumwezi through Ngoma and nanzila (124km) and the Namwala to Itezhi-tezhi D180 (52km) bringing a total of 251.25km of roads to be upgraded and re-designed to climate resilient standards (including floods, droughts and increased temperature). These roads will be included in the feasibility studies and the environmental and social impact assessments.**

Field visit to Barotse Sub-Basin:

24. A mission led by the platform leaders of Climate Resilient Agriculture and Climate Information visited Mongu district to consult with Provincial Authorities and the Barotse Royal Establishment (BRE) on the choice of target canals, as well as the design of the Participatory Adaptation component. Together with provincial and BRE representatives, the mission also carried out a field assessment to selected priority canals (Muoyowamo, Lubitamei and Musiamo as seen in the pictures below). In general, the mission found that BRE and Provincial Authorities supported the activities proposed under the project, as they saw it as an important contribution to the resilience and socio-economic development of sub-basin.

Muoyowamo Canal
below the entry of
the upper
Musiamo canal



Muoyowamo Canal at
the entrance of the
upper Musiamo canal
– see sand deposits!



Musiamo below the Muoyowamo
Canal



Musiamo Canal crossing below Nayuma –
showing sand deposits





25. Feedback from BRE, confirmed with Provincial Authorities at a wrap-up meeting in Mongu on November 3, 2011, indicated the following priorities for canal rehabilitation and management:
 1. Muoyowamo Canal (28 km),
 2. Lubitamei Canal (87 km),
 3. Ng'ombala Canal (43.7 km),
 4. Musiamo Canal (131 km)
 5. Fisheries Canal (9 km).
26. The Mongu-Kalabo canal (50 km) was ranked last in priority, in recognition of the fact that it is likely to be affected by the construction of the Mongu-Kalabo road upstream. Since construction of the road is expected to last 4 years, the mission was of the opinion that desilting of the canal should be included as part of the environmental mitigation responsibilities of the current road contractor. This issue will be further discussed at RDA's level. In the meantime, given the limitation of project funding and the likely impacts of the road on the canal, the mission recommends excluding the Mongu-Kalabo canal from the feasibility and environmental and social assessment studies.
27. The mission team was informed that Muoyowamo, Ngombala, and the Fisheries canals require dredging while Musiamo and Lubitamei canals require mostly community-based routine operation and maintenance works. Nonetheless, due to the multiple uses of the canals and their complex socio-economic setting, it would be essential to start with a "soft" institution-building phase to reach agreement amongst drainage canal/water users on the interventions, as well as maintenance and operational arrangements, under the close oversight of BRE and Provincial Authorities.
28. The mission also discussed with local stakeholders the design of the Participatory Adaptation component. The following principles were discussed:
 - (a) Financing to target Districts and Local Area Committees could be provided in stages, with limits proportional to the level of capacity and climate resilience attained by the

communities. For example, once communities completed certain fiduciary standards and stages (e.g. preparation of a climate resilient plan) they would be entitled to a certain level of funding; if they proceeded to a more advanced stage, they would be able to access a higher level of funding;

(b) Community participation could be in-kind and varying in proportion depending on the type of activities (e.g. whether for social infrastructure or for group-level activities) – but it should be clear to communities from the onset.

(c) While all proponent institutions should pass minimum (level 3) fiduciary standards, the original ZAMSIF standards would be updated to reflect current day realities;

(d) Activities should benefit *at least* 50 percent of the most vulnerable members, but that criteria may differ depending on the nature of the sub-project (with social activities expected to benefit most members of the community).

(e) It was agreed that both the infrastructure investments as well as participatory adaptation components must take community stakeholder views into account, use and respect local structures, and that there is a need to help build community and district capacity through participatory planning and implementation.

29. Based on the above, **the DMMU Provincial Coordinator agreed to propose the best model based on past experiences with similar projects and community participation in the province.** This will form the basis for the PPCR to continue to adjust the component design.
30. Local authorities emphasized strongly the need for community sensitization and provision of clear climate information (understandable to local farmers and stakeholders). **As such, it was agreed that the PPCR team and the civil society partners would schedule sensitization and training workshops at the district/community levels, starting from January-February 2011 (see para. 20).** The PPCR team would inform the local authorities and BRE of the proposed schedule in advance, to enable them to participate in the planned sensitization process.

F. Summary of Mission Recommendations

31. Based on the mission findings, the key mission recommendations are the following:
 - (a) MOF should insert an allocation into the 2012 budget to cover the incremental salaries of the positions to be seconded and attached to the Secretariat (**by December 30th, 2011**)
 - (b) In close collaboration with the other involved agencies, MOF should establish the National Climate Change Secretariat, with key managerial and technical staff seconded/attached from their respective agencies, **by December 31, 2011.**
 - (c) MOF should finalize the request for extension of Phase I, including the final action plan for extension, the latest progress and financial management report, and a revised Procurement Plan, **by November 28th, 2011.**
 - (d) The World Bank should process the extension of Phase I by **November 30, 2011.**
 - (e) Procurement of key preparation contracts should proceed as follows:
 - The General Procurement Notice and Expressions of Interest for the SESA should be advertised by **November 28th, 2011**
 - The Expressions of Interest for the Feasibility Studies and the Environmental and Social Impact Assessment should be advertised by **November 30th, 2011**
 - (f) The World Bank and AfDB should agree on, and finalize the draft Project Preparation Grant by **January 15, 2012.**

- (g) The Zambia Civil Society Network, in collaboration with the Red Cross, Green EnviroWatch and any other civil society group with experience in the sub-basins, should submit a proposal to MoF for the awareness and community sensitization activities, by **mid-December 2012**.
 - (h) The above civil society partners, in collaboration with the Information and Agriculture platforms and local authorities, should carry out the initial sensitization and training workshops **by January-February 2012**.
 - (i) DDMU Western Province should submit a proposal for the Participatory Adaptation Component, **by January 15, 2012**.
 - (j) The Harbor Master for Western Province should provide detailed information on unit costs of canal rehabilitation and operation and maintenance, **by December 15, 2011**.
32. The next Joint Mission is expected to take place around April 2011, to orient the mobilization of the preparation studies.

Annexes:

- A. List of Mission Members and Contacts
- B. Terms of Reference for Joint Mission
- C. Minutes of the First Mission Meeting
- D. Assessment of the Roads in Kafue Basin
- E. Agreed Next Steps in Barotse Sub-Basin

For the Government of Zambia:

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For the Government of Zambia:

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Annex A. List of Mission Members and Contacts

Names and Contacts of Participants for 25-28 October 2011 meetings

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Names and Contacts for Meetings held in the Kafue Sub-Basin, October 31-November 3, 2011

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Nakauma Moses	NAZ-I.T.T	A.A		0979 323 671
Hastings Chinyundu	DATF	DACA		0979 890 278
Mwanza Fredrick	ZANIS	Information officer		0979 724 735
Maybin Hambayi	Social Welfare	DSW Officer		0975 437 039
Simonda Mukela	ZP (P.U)	Z/Commander		0979 863 769
Memory Mutanga	OOP(SD)	A.G.O		0979 863 769
Walubita Gaphine	Council-DPO			0977 561 968
Stephen Mujibelo	Council Ag. DoW			0979 986 404
Steven Siamatimba	Council Ag. DCS			0978 314 800
Chamba Besa	Forestry	DFO		0979 323 741
Paul Samamba	ZP I.T.T			0975 128 500
CheemboEMangwatu	Council	Council Secretary		0977 370 409
Moses Mbuta	ZESCO			0977 708 106
Ronald Minjanji	Judiciary	O.I.C		0979 794 149
Kombe Sikazwe	District Council Treasure			0977 431 175
Melele Enarst	MALI	Agriculture T.O		977 799 296
Supuni Mwansa	Fisheries	Fisheries Res. Officer		0977 433 933

**Names and Contacts for Meetings held in Mongu District, Western Province,
October 31-November 3, 2011**

MONGU Provincial and DISTRICT MEETING				
S/N	NAME	ORG / TITLE	PHONE	E-mail
1	Jennifer Malembeka	MCD MCH/PCDC	0977484492	jmalembeka@yahoo.com
2	Humphrey Mupeta Sande	Forestry/ EA	0977589073	humphreysande@yahoo.com
3	Bornface Kambatika	PPU/Senior Planner	0977437008	bornfacek@gmail.com
4	Stanley Simwaka	Maritime/Habour Master	0977427570	stanleysimwaka@yahoo.com
5	Joseph Simenda Maopu	Cultural Affairs	0977437008	jomaopu@yahoo.com
6	Ngenda Mukubesa	Ward Councilor	0977503077	
7	Akatama Akatama	Ward Councilor	0979545176	
8	Pius Mishengo Mishengo	District Administration	0979556239	makuwapius@yahoo.com
9	Mubita. Pumulo	Reginal Co-ord DMMU	0977408636	pmubita@yahoo.com
10	Moses Namusunga	MET	0979568831	Mnamusunga2006@yahoo.com
11	Martin Swaswa	Provincial Met Officer	0978982182	kswaswa@yahoo.co.uk
12	Sunday C. Ngambi	Water Affairs-PWE	0969903776	chendabusiku@yahoo.com
13	Phomwell Moonga	ZAWA	0977827430	Moonga2009@yahoo.co.uk
14	Chabalanga Ngambi	MAL/DACO	0977279947	n.chabalagao@yahoo.co.au
15	Mwiya Mukungu	MAL/PAO	0979403803	mwiyamukungu@gmail.com
16	James Masioja	MAL/AFT	0977528668	jamesmasioja@yahoo.com
17	Simataa Nakambo	CeLIM	0977719467	simataakambo@yahoo.com
18	Micheal Inambo	Asst Chief Planner	0955851682	Kenye1970@yahoo.com
18	Sofia Bettencourt	World Bank	0977750972	sbettencourt@worldbank.org
20	Akufuma Muboua	Red Cross	0979722758	
21	Emmanuel M. Nyirenda	MACO	0978954125	sweetkayipaike@yahoo.co.uk
22	Zulu Bernard	RDA	0977664823	bzulu04@yahoo.co.uk
23	Ngoga Daka	PSO	0977752215	ngogoluye@yahoo.com
24	Wakunguma Charles	DCDO/MCDCH	0977545504	
25	Memory Chembe	Red Cross	0978905764	
26	Evaristo Muhau	Red Cross	0979646581	Muhau.arha@gmail.com
27	Muletambo Mutakatala	Ward Councilor	0974729127	
28	Brian Kayongo	Red Cross	0977580045	
29	Dr. Simaisga Simainga	MAL	0977670115	drsimaisga@yahoo.co.uk
30	Enock Ntoka	Red Cross	0977405686	
31	Dos Santos F.A	Deputy MayorLealui Ward	0976033959	

32	James Zulu	Red Cross	0978545319	James_Zulu@hotmail.com
33	Martin N. Sishekanu	Advisor	0977570623	mnsishekanu@gmail.com
34	Joseph Kayanga	Met Depart		
35	Dickson Ndhlovu	RDA	0977392724	Dndhlovu200@gmail.com dndhlovu@roads.gov.zm
36	Iretomiwa Olatunji	World Bank	0973207869	iolatunji@worldbank.org
37	Choolwe Milambo	Green Enviro Watch	0977547622	Choolwe.milambo@green.enviro-watch.org
38	Kagosi Mwamul	NHCC	0977500243	mwamsk@yahoo.com

MONGU PERMANENT SECRETARY'S OFFICE				
S/	NAME	TITLE	PHONE	E-mail
1	Sethi Muleya	Permanent Secretary	0977440231	Sethi.muleya@yahoo.com
2	Liomba. M	Deputy Permanent Secretary	0977429941	liombam@yahoo.com
3	Bornface Kambatika	Senior Planner	0977437008	bornfacek@gmial.com
4	Micheallnambao	Asst Chief Planner	0955851682	Kenye1970@yahoo.com
5	Mubita. P	Reginal Co-ord DMMU	0977408636	pmubita@yahoo.com
6	Stanley Simwaka	Habour Master	0977427570	stanleysimwaka@yahoo.com
7	Martin Swaswa	Provincial Met Officer	0978982182	kswaswa@yahoo.co.uk
8	Stanley Lukonga	NHCC	0977707789	stanleylukonga@yahoo.com
9	Rebecca Chueshe	Reporter	0977899541	rebecca_chueshe@yahoo.co.uk
10	Jeff Banda	Reporter	0977476563	jeffmada@yahoo.co.uk

SAA /SIKALO KUTA INDUNAS- Barotse Royal Establishment	
1	Inudna Inete
2	Inudna Mutwaleti
3	Inudna Namunda
4	Inudna Namaunba
5	Inudna Mayunyi
6	Inudna Inyundwaua
7	Inudna Mayunyi
8	Inudna Awaami
9	Inudna Munono
10	Inudna Inukondo
11	Inudna Nawasilunda
12	Inudna Afungatelia
13	Inudna Isikani
14	Inudna Mubonda

MONGU PROVINCIAL AND DISTRICT DEBRIEFING MEETING –DEPARTMENTAL HEADS				
S/N	NAME	ORG / TITLE	PHONE	E-mail
1	Lukonga Stanley	NHCC	0977707789	stanleylokonga@yahoo.com
2	Christopher Liswaniso	Community Development	0966118509	taliswaniso@yahoo.com
3	Bornface Kambatika	PPU/Senior Planner	0977437008	bornfacek@gmial.com
4	Stanley Simwaka	Maritime/Habour Master	0977427570	stanleysimwaka@yahoo.com
5	Akatama Akatama	Ward Councilor	0979545176	
6	Mubita. Pumulo	Reginal Co-ord DMMU	0977408636	pmubita@yahoo.com
7	Martin Swaswa	Provincial Met Officer	0978982182	kswaswa@yahoo.co.uk
8	Sunday C. Ngambi	Water Affairs-PWE	0969903776	chendabusiku@yahoo.com
9	Mwiya Mukungu	MAL/PAO	0979403803	mwiyamukungu@gmial.com
10	Sofia Bettencourt	World Bank	0977750972	sbettencourt@worldbank.org
11	Mugyana Nganga	Red Cross	0979722758	
12	Emmanuel M Nywende	MACO	0978954125	sweetkayipaik@yahoo.co.uk
13	Zulu Bernard	RDA	0977664823	bzulu04@yahoo.co.uk
14	Enock Ntoka	Red Cross	0977405686	enockntoka@gmail.com
15	James Zulu	Red Cross	0978545319	James_Zulu@hotmail.com
16	Martin n. SisHekanu	Advisor	0977570623	mnsishekanu@gmail.com
17	Joseph Kayanga	Met Depart		
18	David Ndhlovu	RDA	0977392724	Dndhlovu200@gmail.com dndhlovu@roads.gov.zm
19	Iretomiwa Olatunji	World Bank	0973207869	iolatunji@worldbank.org
20	Choolwe Milambo	Green Enviro Watch	0977547622	Choolwe.milambo@green.enviro. watch.org
21	Kagosi Mwamulowe	NHCC	0977500243	mwamsk@yahoo.com

Annex B. Mission Terms of Reference

Zambia PPCR Mission Outline Notification

Joint Programming Mission to Support Zambia
Preparation of Strategic Program for Climate Resilience Phase II Projects
October 25- November 10, 2011

Key Government Contact: Ms .Monde F. Sitwala
Deputy Director
Economic Management Department
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Alternate Government Contact:
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Principal Economist
Economic and Technical Cooperation Section
Ministry of Finance
Lusaka, Zambia
E-mail: dckaluba@juno.com
Phone: +260-979403037
+260-211 251105

Mission Dates: It is proposed that the mission take place from **October 25-November 8, 2011** under the leadership of the Government of Zambia.

Mission Objectives: To assist the Government of Zambia:
i) to further develop the institutional arrangements for climate change activities particularly the establishment of the Secretariat
ii) to process and activation of the Project Preparation Grant (PPG) for Phase II of the PPCR
iii) finalization of the extension of the Phase 1 of the PPCR; and
iii) development and finalization of plans of the PPCR activities for 2012.
The mission will also visit the local areas to further confirm the project design with stakeholders and conclude their detailed preparation.

To optimize the mission time, the following documents would be provided in electronic form to interested mission participants:

1. Approved SPCR (pdf and powerpoint presentation)
2. Draft ToRs for the Climate Change Institutional Arrangement
3. Project Preparation Grant (PPG) for Phase II of the PPCR
 - a. Draft ToRs for SESA
 - b. Draft ToRs for ESIA (Climate Resilient Infrastructure)
 - c. Draft ToRs for Feasibility Study (Feasibility study, preliminary and detailed design)
4. Draft Action Plan for the Extension of Phase I

Background

Zambia recently had its SPCR approved by the Sub-Committee under the Strategic Climate Fund (SCF) of the Climate Investment Funds (CIF). The Government of Republic of Zambia (GRZ) with Ministry of Finance as the Executing Agency has received \$2 million for the PPG. The objective of the PPG is to assist the GRZ with preparing a project document for the investment projects under the SPCR.

The three projects are:

- **Project 1:** Strengthening Climate Resilience in Zambia and in the Barotse Sub-basin (IBRD). The proposed project would have two major components and four sub-components with specific objectives (i) strengthen the institutional structure, strategic planning, coordination and awareness for climate resilience in Zambia; and (ii) strengthen the adaptive capacity of vulnerable rural communities
- **Project 2:** Strengthening Climate Resilience in the Kafue River Basin (AfDB) through two mutually reinforcing components focusing on participatory adaptation and climate-resilient infrastructure in the Kafue River Basin. Specific objectives include i) strengthen the adaptive capacity of vulnerable rural communities and ii) to respond to climate change and variability in priority areas of the Kafue River Basin.
- **Project 3:** Private Sector Support to Climate Resilience (IFC) with Specific objectives (i) to improve the capacity of the private sector to use risk modeling to assess climate change risk within all the SPCR projects and sub-basins; ii) to increase the resilience of the agricultural private sector to climate change via weather index-based insurance products; (iii) to incentivize the private sector to invest in climate resilience building through the development of new financial mechanisms; and (iv) to identify and initiate private sector investments in alignment with the three SPCR platforms.

The amount requested by the GRZ was grant of USD50 million and USD60 million in other concessionary resources. The approved amount was USD40-50 million in grant and USD36 million in other concessionary resources.

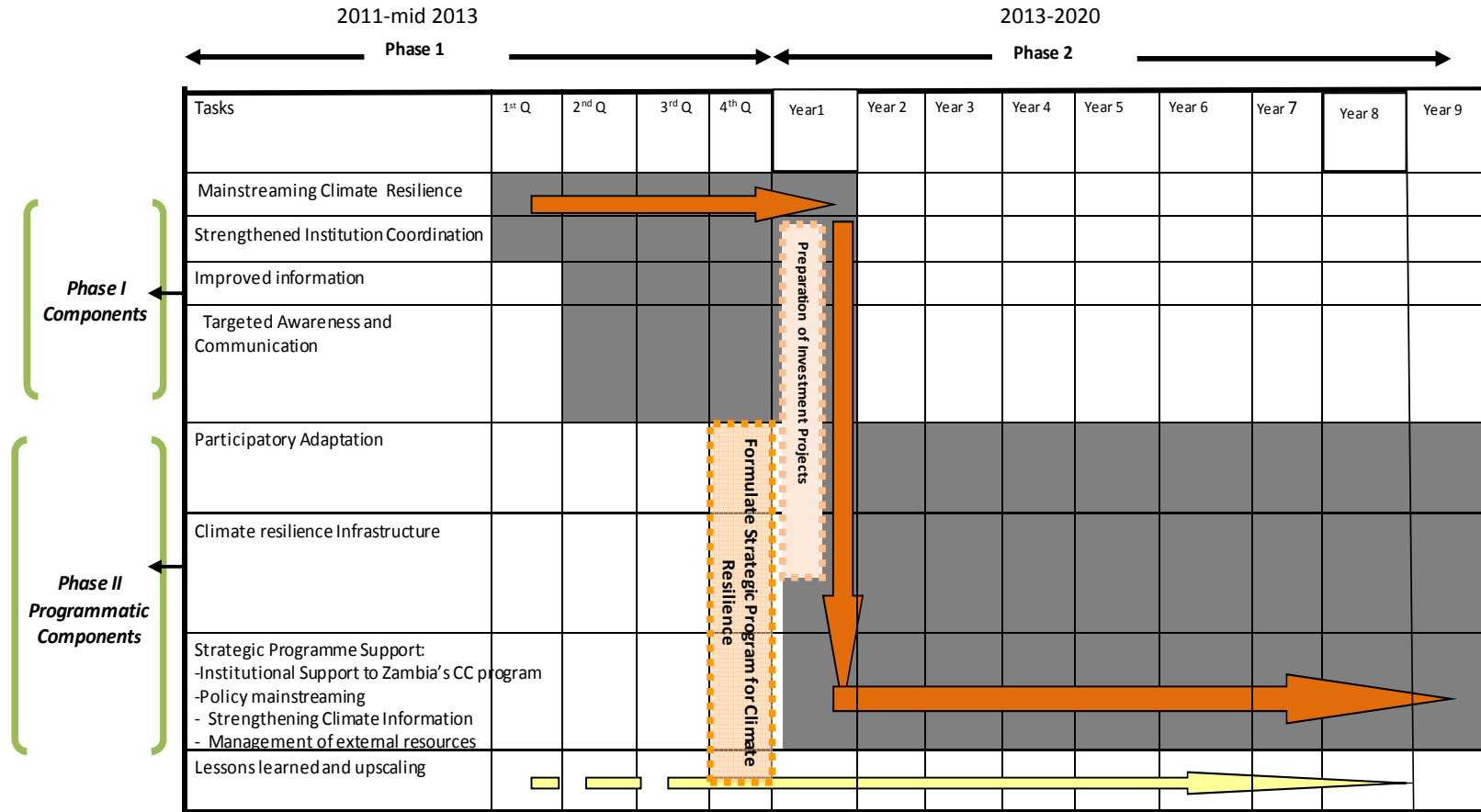
Through the investment projects, the GRZ aims to achieve Climate Resilience incentives for scaled-up action and transformational change through pilot projects that demonstrate how to integrate climate risk and resilience into core development planning, while complementing other ongoing development activities in a given country. The PPG and other related activities including the extension of the Phase I grant that will transition into the Phase II are country-led, and intended to enable Zambia achieve efficient and successful project implementation to address climate risks and vulnerabilities.

The PPG is the transitional link between the Phase I and II with the expectation that the two phases would overlap (see Figure 1 for more details)

Phase I is currently ongoing and is anticipated to be extended till December 2013 with a revised action plan. The Phase II will commence with project implementation after the finalization of the internal process of the respective MDBs. The project document will be an output of the PPG.

The purpose of the current joint mission is to consolidate previous achievements and to assist the GRZ to link the mapped out activities, their respective interest and potential alignment of the PPG.

Figure 1: Overview of the PPCR – Phase 1 and 2



2020

Mission Scope of Work

Mission participants would be drawn from the existing four distinct thematic Platforms.

1. Improved **Climate Information Platform: Head of the Platform** - Dr. Joseph Kanyanga, Meteorology Department
2. Climate Resilient **Agriculture Platform: Head of the Platform** - Mr. Martin Sishekanu, Advisor
3. Climate Resilient **Infrastructure Platform: Head of the Platform** -Dr. Michael Mulenga
4. **Management and Financing:** Prof. Lloyd Chingambo and .Management Team from MoFNP

In addition to this, the mission participants will include representatives from the three MDBs (AfDB, IBRD and IFC) and UNDP. IFC will join key meetings by phone conference. Other interested Cooperating Partners will be invited to join the sessions of their interest.

The mission will include the following sessions:

1. **Institutional arrangements** - Briefing to the new Government Officials; Discussion with the ST and the Cooperating Partners on the proposed Secretariat for climate change.
2. **Agreement on the Action Plan for Phase I** extension processing which is due by end of October 2011 or as the Rule states 6 months before the end of the project closing date.
3. **Agreement of the ToRs for all studies** that will form part of the PPG, ie SESA, EIA, Feasibility Study. ToRs will be discussed in some detail and further information on the bidding process also provided. These ToRs are critical part of the Project Preparation.
4. **Forward planning on project preparation and SPCR activities in 2012.** The discussion here will be cover what is expected with the PPG and also how to ensure that progress is being made throughout the 2012 calendar year.
5. **Discussion and Agreement on low and high cost scenarios** for the Investment Projects of the PPCR. This is important given the envelopes that the PPCR sub-committee has approved.
6. **Field trip-** visit to local stakeholders (with a possible courtesy call on royal establishment) to examine, discuss and consider that might be needed for more detailed infrastructure work (especially roads in Kafue, canals in Barotse). The plans of the field trip will be discussed by a small team early in the week of 24 October to help ensure adequate preparation time.

The group would analyze the priorities and strategies to achieving the objective of the mission within the context of the above discussion issues.

Mission Outcomes

The mission outcomes will be:

- (a) A brief Aide Memoire summarizing the conclusions of the mission and concept paper for the project;
- (b) **Agreements** of ToRs for EIA
- (c) **Agreements** on the ToRs for SESA
- (d) **Agreements** on the ToRs for the Feasibility Study
- (e) TORs for Secretariat on the Long Term Institutional Arrangement
- (f) Documents for processing the Phase I extension including a budgeted Action Plan.
- (g) Preliminary or draft report on field trips

Mission Schedule and participants

The proposed calendar is presented in Table A and the proposed list of the participants in the mission are in Table B.

TABLE A. MISSION CALENDAR 25 October to 4 November							
	Monday 24	Tuesday 25	Wednesday 26 Working Group (WG) meetings	Thursday 27 WG meetings	Friday 28 WG meetings –	Saturday 29	Sunday 30
AM	PUBLIC HOLIDAY	Opening Mission Internal Briefing Objectives: Institutional arrangements, PPG, Phase 1 extension Meeting with ST of Finance ¹	Agenda should cover all the objectives and the listed topics Institutional arrangements High and Low cost scenarios	ToRs for all studies – SESA, EIA, Feasibility Study Meeting of the Cooperating Partners		In house meetings	Free
PM		Overview of the Institutional Arrangements - Small team to start preparation for field visit	Action plan for Phase I extension processing				Possibly leave for field trips
	Monday 31	Tuesday 01 Nov	Wednesday 02	Thursday 03	Friday 04	Saturday 05	Sunday 06
All day	Parallel Field Trip Western Province/Kafue	Workshop of Finance and Management	Workshop on Finance and Management	Agreements on ToRs Possibly arrange the launch of the PPCR by Hon. Minister.	Write Up- Aide Memoire, Project Concept paper etc Informal wrap-up with MoF		
	Monday 07 Nov	Tuesday 08 Nov					
AM PM	Finalize Aide Memoire	Signature Aide Memoire					

¹ Day and time to be confirmed

Table B. Mission Members and Description of Individual Duties

Agency	Name	Expertise	Contributions to mission outputs
Key Mission Members – Zambia			
MoF	Ms Monde Sitwala	Acting Director, Economic Management Department	Jointly coordinate and lead mission activities. Strategic and institutional directions to mission
MoF	David Kaluba	Co-Mission Leader (Government) Principal Economist	Principal mission coordinator on behalf of GRZ. Provide strategic guidance and review all strategic inputs to mission documents.
MoF	David Zulu	Chief Economist	Jointly coordinate and lead mission activities. Ensure engagement of key stakeholders. Review and consolidate submissions or inputs into key mission documents.
MoF	Wezi Phiri	IT Specialist	Supports the coordination all PPCR/SPCR activities and consolidate input from workshops for editing and final production.
MTENR/CCFU	Prof. Jain	Climate Change Specialist	Facilitate the expert derivation of inputs for CCFU engagement on the climate change Secretariat including coordination of relevant submissions for completion of the Work plan.
ZMD	Dr. Joseph Kanyanga	Chief Meteorologist (Representing Global Mechanism)	
DMMU	Mr. Anderson Banda	Head, Information Management Systems	Support the engagement of platform members under the climate information. Coordinate inputs for the work plan
RDA	Dr. Michael Mulenga	Transport/Infrastructure Specialist	Jointly coordinate the finalization of the TORs on the ESIA including completion of inputs on infrastructure into the work plan.
MACO	Mr. Martin Sishekanu	Agronomist	Support the establishment of mechanism for community participatory adaptation activities including associated inputs into the Work Plan
Lloyds Financials	Prof. Lloyd Chingambo	CEO – African Carbon Credit Exchange	Coordinate activities related to the holding of the workshop on finance including associated outputs for further actions.
RDA	Ms. Doreen Bwalya	Principal Executive Engineer	Support the infrastructure platform head in coordinating the completion of ESIA TORs and activities for the work plan.
RDA	Mr Dickson		
Zambia Youth Civil Society Network	Abel Musumali	Director of Programmes	Youth Network contribution to climate information nexus

IBRD			
	Sofia Bettencourt	Co-Mission Leader (World Bank) Adaptation and DRM Expert	Jointly coordinate and lead mission activities. Lead all dialogue session. Consolidate inputs into all documents arising from discussed issues.
	Habiba Gitay	Senior Environmental Specialist	Adaptation and Climate Change inputs into all documents.
	Lungiswa Thandiwe Gxabi	Senior Environmental Specialist	Support the components that might need to include environmental safeguards
	Mary Bitekerezo	Senior Social Development Specialist	Support the components that might need to include social safeguards
	Iretomiwa Olatunji	Climate Adaptation Operations Officer	Support the overall operation, provide technical support in all components
	Petrus Benjamin Gericke	Lead Transport Specialist	Support technical lead on the infrastructure components
	Justin Runji	Senior Transport Specialist	
	Hellen Mungaila	Team Assistant	Assist mission in logistical backup, mission preparation, documentation and field mission preparation
African Development Bank			
	Kisa Ilava Mfalila	Environmental Specialist	
International Finance Corporation by Phone			
	Anthony Mills		
	Sylvain Kakou		
UNDP			
	Winnie Musonda	Assistant Resident Representative and Environmental Advisor	Participate in dialogues especially the Institutional arrangement for Zambia Climate change secretariat
DFID			
WFP			
	Allan Mulando		
UN Global Mechanism			
Red Cross			
World Fish			
Norway			

Minutes of the First meeting of the PPCR Joint Mission held on 25th October 2011, at 09:00 at the World Bank Offices

1. Attendance: See Annex A.
2. Agenda:
 - a. Welcome remarks
 - b. Mission Objectives and Schedule
 - c. PPCR Phase I
 - d. Highlights from Cape Town and the SPCR
 - e. Highlights from Green Climate Fund
 - f. Institutional Arrangements
 - g. Preparation for Field Trip

1. Welcome Remarks

Mr. David Kaluba, Principal Economist and PPCR Coordinator, from the Minister of Finance welcomed the participants to the meeting.

2. Mission Objectives and Schedule (see Annex B)

The meeting was informed that in addition to activities scheduled for Tuesday, a meeting with representatives from the Nordic Fund had been scheduled to discuss the possible addition of Euro 4 million (approximately US\$ 5 million to the SPCR). The meeting also heard that KfW may be interested in contributing a further Euro 8 million to the program, with 5 million in investment in hydro-met infrastructure, and 3 million in water management.

3. PPCR Phase I

Prior to discussing the elements of the SPCR, a brief background note on the PPCR was provided. Mr. Kaluba explained that there were two phases under the PPCR. Phase I deals with preparatory activities with five priority components. These five components includes: (1) mainstreaming of climate resilience into the SNDP; (2) strengthening of institutional harmonization; (3) targeted awareness and communication (4) information for decision makers and (5) preparation for Phase II. These were identified during the identification and selections stages by stakeholders on climate change.

Concerning the mainstreaming of climate resilience, the meeting was informed that the climate change risks and opportunities have been identified in the SNDP and achieved through the work of a team of experts that was constituted. At this stage the SNDP is comprehensively mainstreamed and mechanisms to take this work further to sectors are being explored.

On the strengthening of institutional coordination, the meeting heard that the objective was to implement climate change activities in a more coherent way and avoid institutional overlaps.

To this effect, the PPCR is currently facilitating the establishment of the secretariat and the eventual long term institutional arrangement on climate change in the country. This is being done in collaboration with the Ministry of Local Government, Housing, Early Childhood and Environmental Protection.

Regarding the component on awareness and communication, the PPCR recently facilitated the sponsorship of 48 youths from pilot districts in the Kafue and Barotse sub-basins who were invited to the Regional Youth Conference. After the Regional Conference these youths were organized to form a youth network of champions. In addition, the PPCR facilitated the holding of a workshop on crowd sourcing including the field visits to the Barotse sub-sin where various provincial, district and local leaders were met to discuss various issues on climate change in addition to conducting institutional and financial management assessments. Stakeholders from Civil Society, Government and other institutions participated during the field visits.

The meeting was further informed that the targeted awareness component was intended to procure and install equipment for primary data generation in collaboration with ZMD and DMMU. During the extension period, elements of the targeted awareness component will be further explored and implemented.

With regards to the preparation for Phase II, the meeting heard that Zambia has now submitted the SPCR proposal and the Sub-Committee of the PPCR has approved the request of US\$86 million. It was further noted that the SPCR has been the key output of Phase I and has set the tone for undertaking investments under phase II. As such, the country is privileged to be a pilot country.

4. Highlights from Cape Town and the SPCR

Regarding the Strategic Programme for Climate Resilience and the meeting held in Cape Town, South Africa, the meeting was informed that Zambia's proposal was endorsed by the PPCR Sub-Committee for a total of US\$ 86 million. Zambia was represented by Platform Heads on climate information, agriculture, finance and infrastructure including Civil Society and the Youth Network. The SPCR submission was well received and supported by various countries which included Germany, Japan, USA, UK and Australia. As noted above, Germany has since expressed willingness to support the SPCR through an Euro 8 million financial assistance.

Further, the meeting was informed that under the SPCR, three components have been identified and they include component 1 which deals with Participatory Adaptation. Under this component 24 districts across 6 provinces have been prioritized and the SPCR will contribute approximately US\$300,000/year in addition to the Government's constituency development fund which is estimated at US\$1.1 million. This represents approximately 30% of the total amount of the GRZ allocation. The percentage may change depending on the revised amount of GRZ allocation in the 2012 budget. Alongside GRZ grants, the SPCR's Participatory Adaptation will also include the support at the administrative level.

The Participatory Adaptation will be implemented on the basis comparative advantage with Councils leading the process and supported by Civil Society organizations in localities being covered. Note has been taken to the effect there are NGOs active in various communities whose comparative advantage in implementing activities can be explored while using government institutions that are strong there (e.g. DMMU). The other principle includes maximization of the decentralization process currently going on including the regional planning bill process to be presented through parliament. It is hoped that these plans will be mainstreamed, in preparation for implementation in order to facilitate the reinforcement of the community's capacity in terms of creating resiliency.

Concerning the identification of the 24 Districts, the meeting was informed that Zambia Vulnerability Assessment Committee identified the districts as vulnerable in addition to expert studies as contained in the NAPA and the other documents. Furthermore, considering

the resources constraints, only a few districts could be picked. Further, note was taken that this was a piloting exercise and that there is still room for up scaling to other districts. It was felt that some districts could afford to wait more than others. In terms of potential specific interventions, a number of activities in agriculture, fisheries, natural resource management, alternative sources of income, water harvesting, flood control, construction, climate resilient standards, retrofitting were have been identified. Some of the activities on the PA may also involves the rehabilitation of canals.

Under the Climate Resilient Infrastructure, it was noted that the PPCR intends to fund about 25 to 56% percent of the costs of projects. Considering the revision in the amount requested under the concessional financing of the SPCR, there will be need to consider a lower cost scenario for infrastructure activities. Currently, the SPCR is less by US\$24 million for infrastructure. It was noted that GRZ needs to express interest to utilize its ADF allocation to enable the bank commence formal processes of feasibility studies to secure the funds to meet the gap in financing.

Strategic Programme Support will target aspects of the institutional arrangement and the support to the structure including a variety of climate information activities specific to establishing early warning systems.

In terms of the main projects under the SPCR, three projects are expected and they include:

- World Bank – overseeing the Barotse investments (infrastructure and participatory adaptation) and strategic programme support (including climate information)
- AfDB – overseeing the Kafue investments (infrastructure and participatory adaptation) – particularly the road to and from Kafue National Park.
- IFC – private sector investments, particularly the weather index insurance, and micro-finance.

The SPCR presentation has been followed up with written comments from the UK and Germany who recommended areas for improvements during the implementation of various strategies contained in the SPCR. Some of the comments recommended further consideration for water management schemes, cost effectiveness ensuring a robust M &E framework and the further strengthening of institutional coordination as priority including ensuring a lean structure for the climate change council.

5.Green Climate Fund

A brief background on the design of the Green Climate Fund was provided and highlighted major elements of the design instruments as concluded by the Transitional Committee. Some of the elements include Legal Status of the Green Climate Fund, access modalities including direct Access, relationship with the COP, thematic windows, functions of the Board, Secretariat, private sector e.t.c. The GCF will complement existing institutions on climate change such as the GEF, Adaptation Fund, World Ban and other institutions including bilateral partners that are dealing with climate change interventions.

With the above in mind, it is apparent that the establishment of the new institution in Zambia is very important to permit the country receive the funds once the GCF is in place. There is further need for a number of dedicated people to form this institutional program.

6. Institutional Arrangements

The meeting was informed the idea is to have a centralized coordinating mechanism for Climate Change which incorporates adaptation, mitigation and DRM was initiated through a study on the National Climate Change Response Strategy. The NCCRS noted that there was need for an independent institution to coordinate climate change activities in Zambia. The NCCRS proposed various modalities for an ideal structure and institution which the Committee of Permanent Secretaries under the chairmanship of the Secretary to the Treasury intends to formalize through the establishment of the Secretariat. The Secretariat will among other objectives facilitate further consultations on the establishment of the long term institutional arrangement.

With the above in mind, the Ministry of Finance invited respective institutions (Ministry of Environment, DMMU, Agriculture, Cabinet Office) to discuss the harmonization of this structure. Three members of staff have since been identified to serve on the Secretariat and the process to formalize their engagement is under way through the process to design the ToRs for the institution and the job descriptions. It was noted that the Secretariat will principally take two major functions including the process to establish a long term institution on climate change and the coordination of the implementation of ongoing activities on climate change in Zambia which will involve harmonization of activities under the CCF, Forest department, Ministry of Agriculture, Ministry of Finance and Disaster Management and Mitigation Unit. The process is currently ongoing and it is hoped that the exercise will be completed during the Joint Mission.

5. Preparation for Field Trips

During the afternoon session the group was divided into two to cover the preparation for the field trip on one hand and the further consideration of the ToRs for the establishment of the Secretariat on the other. The visits were meant to be undertaken for the Barotse and the Kafue Sub-Basins particularly to assess status and location of canals and roads earmarked for rehabilitation. An appreciation was made to the effect that the management of canals will enhance tourism and cultural heritage. The Barotse royal establishment considers the rehabilitation of canals as beneficial to the province and the economy of the respective areas. Note was also taken regarding the Mongu-Kalabo waterway which rehabilitation was under question although maintaining the canal would be needed whether or not the road was done. It was further noted that the road should be ready around 2015. In addition, the Mission observed that the field trip should involve consultations with the stakeholders including engineers to decide on the final canals and the scope of the Climate Resilient Infrastructure needed to be undertaken. The involvement of the Induna in charge of canals as well as the harbor master as key stakeholders was crucial.

Objectives for the field trip:

- To examine, discuss and consider what might be needed for the Climate Resilient Infrastructure component, including the location and scope of the target roads and canals.
- To discuss further with local authorities the proposed Participatory Adaptation Component, including how to support the 30% increment.
- To verify and adjust the TORs for ESIA and Feasibility Studies, taking into account the findings from the field.

- To carry out the field and institutional assessment in the Kafue sub-basin.

Field Trip Itinerary – Barotse Sub-Basin

Visit to Mongu and Senanga

- Meeting with local authorities (including Induna and harbor master)
- To visit Muoyowamo canal, (Ngombala canal near Kaoma)* and Fisheries Canal.
- Possibility to visit parts of Mongu-Kalabo if local authorities endorse it.

Day 1 (Sunday) - Departure 9:00 hours to Mongu – overnight in Mongu

Day 2 (Monday)

- Informal meeting with Harbor Master and Provincial Coordinator DMMU and Local Officer of NHCC
- Courtesy call to the Provincial Permanent Secretary, DDC (morning)
- Courtesy call to BRE (afternoon), including the meeting with the Induna and Harbor Master

Day 3 (Tuesday) -- Split into two groups:

- Group 1: Courtesy visit to the District and visit to Senanga (Fisheries canal)
- Group 2: Mongu (Muoyowamo and Ngombala canal). Or do Ngombala on the way back

Day 4 (Wednesday)

- Team feedback (morning)
- Feedback to the local Government (afternoon)
- Review of TORs

Day 5 (Thursday) -- Return to Lusaka

Field Trip Itinerary – Kafue Sub-Basin

Objectives:

- Field assessment (financial and institutional assessment of selected districts)
- Conduct road condition assessments and reconcile with the ToRs,

Visit to Mumbwa, Itezhi-Thezi, Namwala, Choma, Kalomo return via Mazabuka for field assessments and Park Road (Ngoma-Dundumwezi Gate), Kalomo-Dundumwezi:

Group 1

Day 1 (Sunday) - Departure 9:00 hours to Itezhi-Thezi

Day 2 (Monday)

- Courtesy call on the DC (morning)
- Institutional Assessment in Itezhi-Thezi
- Travel to Namwala (afternoon)

Day 3 (Tuesday)

- Courtesy call to the DC (morning)
- Institutional Assessment

- Field visits: Shezongo to Namwala

Group 2 – Kafue Sub-Basin

Day 1 (Sunday) - Departure 09:00 hours to Kalomo

Day 2 (Monday)

- Courtesy call to the DC (morning)
- Institutional Assessment
- Field visits: Kalomo to Dundumwezi Road
- Travel to Choma

Day 3 (Tuesday)

- Courtesy call to the DC (morning)
- Institutional Assessment
- Travel to Monze and pay courtesy call to DC (afternoon, depending on time)

Day 4 (Wednesday) – Group 1 & 2 converging in Monze

- Group 2 : institutional assessments in Monze (morning)
- Team feedback
- Review of TORs

Day 5 (Thursday)-- Return to Lusaka

CLIMATE RESILIENT INFRASTRUCTURE - ASSESSMENT OF THE ROADS IN KAFUE BASIN

1. BACKGROUND

Zambia recently had its SPCR approved by the Sub-Committee under the Strategic Climate Fund (SCF) of the Climate Investment Funds (CIF). The Government of Republic of Zambia (GRZ) with Ministry of Finance as the Executing Agency has received \$2 million for the Project Preparation Grant (PPG). The objective of the PPG is to assist the GRZ with preparing a project document for the investment projects under the SPCR.

The three projects are:

- **Project 1:** Strengthening Climate Resilience in Zambia and in the Barotse Sub-basin (IBRD). The proposed project would have two major components and four sub-components with specific objectives (i) strengthen the institutional structure, strategic planning, coordination and awareness for climate resilience in Zambia; and (ii) strengthen the adaptive capacity of vulnerable rural communities
- **Project 2:** Strengthening Climate Resilience in the Kafue River Basin (AfDB) through two mutually reinforcing components focusing on participatory adaptation and climate-resilient infrastructure in the Kafue River Basin. Specific objectives include i) strengthen the adaptive capacity of vulnerable rural communities and ii) to respond to climate change and variability in priority areas of the Kafue River Basin.
- **Project 3:** Private Sector Support to Climate Resilience (IFC) with Specific objectives (i) to improve the capacity of the private sector to use risk modeling to assess climate change risk within all the SPCR projects and sub-basins; ii) to increase the resilience of the agricultural private sector to climate change via weather index-based insurance products; (iii) to incentivize the private sector to invest in climate resilience building through the development of new financial mechanisms; and (iv) to identify and initiate private sector investments in alignment with the three SPCR platforms.

2. STRENGTHENING CLIMATE RESILIENCE IN THE KAFUE RIVER BASIN

An assessment of the existing road infrastructure in Kafue Basin was carried out on 31st October to 3rd November 2011. The assessment was restricted to three roads under the SPCR, namely Kalomo –Dundumwezi Road, Namwala – Shezongo Road and M9 – Itezhi-Tezhi Road. The objective was to assess the condition of the existing road infrastructure. Figure 1 illustrates the location of the three roads in the Southern province.

The visual inspection was identified as the suitable method for assessing the condition of the road infrastructure. This method is a quick visual inspection of the road on a routine basis to identify problems. The visual inspections were conducted on all the three roads highlighted in Figure 1.

During the visual inspection of each road, data was compiled which included the following components: gravel thickness, roughness, potholes, cracks, rutting, corrugations, surface drainage and erosion. Each component was rated using the Road Development Agency (RDA) road condition surveys rating method. The rating scores were done on a scale from 1 to 5, where 1 is generally very good and 5 very poor.

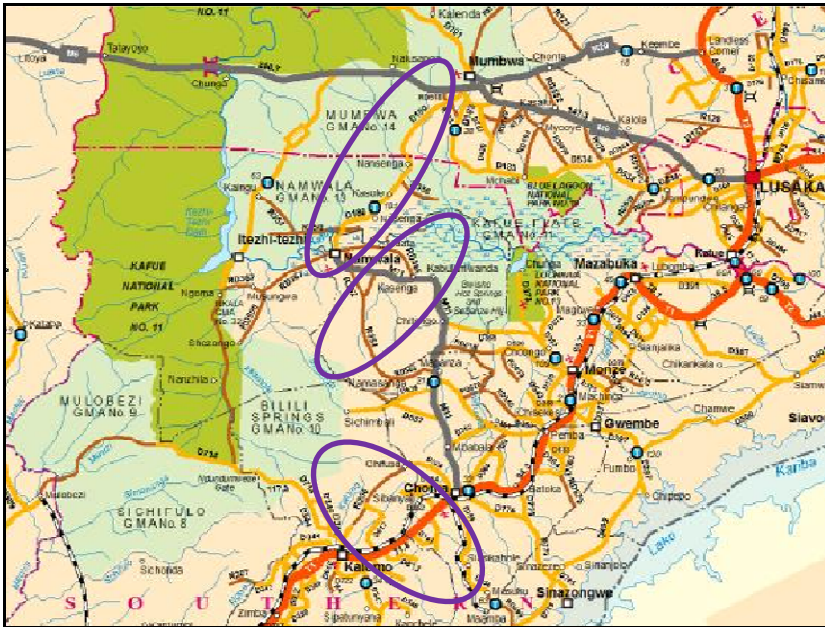


Figure 1: Location of Roads in Kafue Basin

3. ROAD ASSESSMENT

3.1 KALOMO –DUNDUMWEZI ROAD

The 75 kilometer Kalomo –Dundumwezi road links Kalomo to the southern end of the Kafue National Park through the Zambia Wildlife Authority (ZAWA) entry gate. This road is meant to shorten the distance from Livingstone to the Park.

Findings:

The road is currently non- paved (gravel) and in varying conditions of state. Generally, the road was assessed to be in a fair condition, implying that the wearing course was less than 50mm, dusty, slightly corrugated and potholed, with some signs of erosion on the surface. Poor drainage and insufficient maintenance are the most prominent reasons for the deterioration of the road where it is currently in an unsatisfactory condition. Also, some sections of the road lack vegetation control and as a result the road was very narrow.

The road has about sixty-eight (68) culverts (old and newly installed) and about five (5) small bridges/ drifts (crossing points) which are also in varying state. Most of the bridges are old and require rehabilitation and protection as the guardrails have been vandalized or completely removed.

It was also learnt that periodic maintenance works involving full re-gravelling, grading of the 75 kilometer stretch including about 20km into the Kafue National Park and installation of 900mm prefabricated culverts, was carried out by Chinese Company, Crocodile Construction Ltd, a contractor engaged by ZAWA. The project commenced on 13th May 2009 and was completed on 30th June 2010.

The pictures illustrate some portions of the road and their conditions:

		
<p>Bridge at Km0+600, on Sichikwekwe Stream. Two water lines are attached to guardrails, an 8" line on the right and on the left, a 3" line. The road section on the bridge, including 100m on either side of bridge, was formally paved but now has large potholes and is completely deteriorated.</p>	<p>Old Bridge at Km6+100 with vandalized guardrails</p>	<p>Km32+200 - Wearing course in good condition</p>
		
<p>Km50+700 Wearing course in fair condition and slightly rutted.</p>	<p>Km61 +600 Culverts installed at a drift as part of the works by contractor</p>	<p>Km75+000 – Dundumwezi gate and entrance to Kafue National Park</p>

Conclusions and Recommendations

The Kalomo-Dundumwezi Road which was found in a fair condition is an important link which once upgraded to all-weather climate resilient status will result in a considerable improvement in mobility between the towns, ease transport of goods and produce and also largely contribute towards the establishment of a tourism corridor along the road. This should improve the overall economic growth in the area, thus supporting the Government’s strategy of poverty reduction and upgrading of roads to appropriate standards.

3.2 NAMWALA – SHEZONGO ROAD




The 69-kilometer Namwala –Shezongo Road originates from Namwala town and cuts across the Kafue flats to Shezongo village.

Findings:

The inspection of the road was done in the company of an officer from the Works Section of the Namwala District Planning office. The road is no longer visible and only tracks created by vehicles and ox-carts using the road are present. These were clearly visible up to the first 9.0km of the stretch after which, the road terminates into a stream. After this point, the road diverts into the floodplain, with no clear distinction of where the road passes.

Further, what was observed was that road users had created shortcuts through the plain for easily access and these sometimes deviated significantly from the course of the original road. According to our guide, the road was last graded in 1990, which was confirmed by the fact that in some sections, the original road had been over grown by trees. Also, some sections were extremely sandy and difficult to navigate through. It is also important to note however, that the floodplain was clearly a vital pastoral ground as several large herds of cattle were observed during the inspection.

The pictures illustrate some of the findings:

		
<p>Km 0+800 Road to Shezongo from Namwala</p>	<p>+500 Road section terminates into a stream which is a watering point for cattle</p>	<p>Km 9+800 Road crosses the Kafue Plains and is no longer visible</p>

Conclusions and Recommendations

- It was established that the Namwala – Shezongo road was currently not being used by motorists and upgrading the road to all weather, doublebituminous surface would require a huge investment, which may not be economically viable and add little value to the community.
- Furthermore, before the road could be upgraded, it would be vital to establish the social and economic impact of such a road, given that the road passes through an important pastoral ground. Cattle herding is one of the main economic activities for the ILA people, residing in this area.
- Finally, it was established that there were other shorter and economically viable routes to the Kafue National Park such as, via Itezhi-Tezhi and Ngoma (ZAWA entrance), which could be considered for upgrade.

3.3 M9 – ITEZHI-TEZHI ROAD




The 103-kilometer road from M9 Junction to Itezhi Tezhi is also an access to the Kafue National Park, from the M9 road between Lusaka and Mongu, past Mumbwa town.

Findings:

The road was originally constructed as a bituminous road and later downgraded to a gravel road. In some sections of the road, there is still remnant cement stabilized gravel base, causing the travel on the road to be extremely uncomfortable.

The quantity and gravel quality shows that a high percentage of road length is generally in a poor condition. Similarly, the road was characterized in some sections by poor drainage, potholes, erosion gullies and there was an absence of culverts and drainage facilities for the entire length. It was established from the RDA Southern Province Regional Engineer that the road has not been worked on in the recent past.

The pictures illustrate some portions of the road and their conditions:

		
<p>Km 6+300 Rutting and corrugations on the road with some remnants of tarmac</p>	<p>Km 17+500 Erosion gullies visible on the road surface</p>	<p>Km 40+500 to 48+500 presence of cement stabilized gravel base in the middle section of road</p>

		
<p>Km 59+500 Rutting and corrugations on gravel road</p>	<p>Km 60+200 Entrance to Kafue National Park</p>	<p>Km104–Junction of M9 and Itezhi – Tezhi rd</p>

Conclusions and Recommendations

The M9- Itezhi Tezhi road is an important link which also passes through a Game Management Area. Improvement of this road will not only ease transportation of goods and farm produce but will also largely contribute towards an increase of tourists wishing to explore the area, specifically the Kafue National Park and Itezhi Tezhi Dam in the Kafue River.

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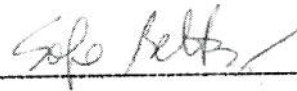
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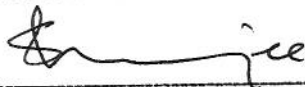
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