**African Development Bank -**

**Global Environment Facility**

**African Climate Technology Finance Center and Network**

**Submission form for the requests for Expressions of Interest to Enhance Knowledge and Technology Transfer for Mitigation and Adaptation in sub-Saharan Africa.**

**1. Description and Objective**

The Pilot African Climate Technology Finance Center and Network is a project dedicated to Sub-Saharan African (SSA) member countries in scaling-up the deployment of low-carbon and climate resilient technologies for climate change mitigation and adaptation. The project is financed by both GEF Trust Fund and by the Special Climate Change Fund.

The project has three components: (1) enhancing knowledge and networking; (2) enabling the scaling-up of technology transfer through policy, institutional and organizational reforms; and (3) integrating climate change technologies into investment programs and projects.

**2. Objectives of this assignment**

These Terms of Reference refer to component (1) enhancing knowledge and networking and specifically the subcomponent 1.1. on “creating and transferring knowledge”.

The general objective of the assignment is to create/enhance and share knowledge on the barriers constraining market dissemination of climate friendly technologies in Sub-Saharan Africa.

The specific objective of the assignment is to produce research on the development and adoption of climate technologies for mitigation and adaptation in Africa in three different areas (lots), respectively.

* **[Lot 1] Integration of Intermittent Renewable Energy Technologies in on-grid and off- grid markets.** Africa has a huge and largely untapped renewable energy potential, while at the same time over 640 million Africans lack access to electricity. Renewable energy technologies are in many cases able to generate power at a lower cost compared to fossil fuels, and are particularly suited to provide energy in rural areas far from the grid. However, the fact that most renewable energy sources are intermittent (solar and wind) increases costs and limits a more wide-spread diffusion in the absence of storage solutions, “hybridization” or adequate grid infrastructure. This lot will produce evidence and actionable recommendations on how to foster the adoption of intermittent renewable energy in Africa in order to increase energy access and the delivery of quality power to consumers.
* **[Lot 2] Market based approaches on the diffusion of Clean Cooking Solutions;**Adoption of clean cooking solutions, not harmful for the user and for the environment, is a priority for SSA but still in the majority of the countries of the region the adoption rate is well below 50%. Quite often, the household penetration of other modern forms of energy or telecommunication is higher than clean cooking technology, suggesting that significant barriers remain for the uptake of improved cooking solutions. This lot will look at evidence and actionable recommendations on how to improve the diffusion of clean cooking solutions within a market based approach, in specific countries or regions.
* **[Lot 3] Efficient use of climate change adaptation technologies in water usages (e.g. irrigation, supply) (or) storm water/flood management in SSA cities.** A major impact of climate change in SSA countries is on the water resources. Adoption of effective adaptation technologies in the water sector is essential to ensure resilience of the water resources systems and a better protection of cities against floods. Beyond the cost of implementing adaptation technologies, are there other key barriers to the adoption of climate change adaptation technologies in the water sector? This lot will first assess the level of knowledge and awareness about adaptation technologies from local to national scale, and second investigate the barriers to their adoption, and third provide actionable recommendations for enhancing the adoption of adaptation technologies in water usages and management.

The geographical coverage of these studies / research products can be any country of Sub-Saharan Africa, a combination of countries or region.

The research can focus on different relevant angles, like policy aspects, cultural and customary habits, economical aspects, technology availability, knowledge gaps, capacity constraints etc. The research should provide actionable recommendations on how to overcome the identified barriers in a cost effective way in the selected context. The proposal may include also activities for the dissemination of the results of the research, including seminars, capacity building, training etc.

The research should: 1) be original and unpublished research; 2) follow international best practices and academic standards; 3) be able to withstand a selective peer-review process;

The research can stem from ongoing research projects and teams already working in the area of climate change and technology transfer, but would need to provide additional research on specific aspects or geographic areas not previously covered by ongoing research projects.

**2. Eligibility and evaluation**

This Expression of Interest is targeted at the public and private research centers/institutions, universities, NGOs, national or regional climate and technology centers and private firms with a specialization in research and development in SSA countries.

The eligibility criteria, the establishment of a short list and the selection procedure shall be in conformity with the Bank’s Rules and Procedure for the Use of Consultants under projects financed by the Bank Group, May 2008 Edition, revised on July 2012 and available on the AfDB website.

**3. Submission**

To submit a request for technical assistance please complete the form presented in Annex I and submit it to:

Attn: Dr. Daniel-Alexander Schroth,

African Climate Technology and Finance Center and Network Coordinator,

ONEC.0 Energy, Environment and Climate Change Department

E-mail: G.AMEHOU@AFDB.ORG

The email shall have the subject line "ACTFCN – Call for proposals – 01.16"

**ANNEX I - SUBMISSION FORM**

|  |  |  |  |
| --- | --- | --- | --- |
|  | SECTION | Max. Length | INSTRUCTIONS |
| 1 | **APPLICANT****DETAILS** | 1 Page | Please provide the following information:  |
| 1.1 | **Country** |  |  |
| 1.2  | **Name of the leading institution and DACON registration Number** |  |  |
| 1.3 | **Other Institutions in the Consortium (if any)** |  |  |
| 1.4 | **Type of Institution (private firm, government agency, university, research center etc.)** |  |  |
| 1.5 | **Focal Point Contact** |  |  |
| 1.6 | **Lot 1, 2, or 3** |  |  |
| 2 | **PROJECT DESCRIPTION** | 3 Pages | Provide describe objectives and the project activities  |
| 4.1 | Project Description |  | Provide a brief description of the project |
|  |
| 4.2 | Objectives  |  | Provide a description of the objectives of the project.  |
|  |
| 4.3 | Activities and expected outcomes |  | Provide a description of the activities planned and the expected outcomes, in order to achieve the objectives listed in 4.2 |
|  |
| 4.4  | Impact |  | Describe the impact on climate change mitigation (for Lot 1 and 2) and adaptation (for lot 3), technology transfer and expected development outcomes.  |
|  |
| 4.5 | Relevance |  | Relevance within national, regional, and international actions (UNFCCC, SE4All, SDGs, Regional or national plans etc.), |
|  |
| 4.6 | Proposed Deliverables |  | Provide a list and brief description |
|  |
| 6 | **Experience in similar assignments** | 1 Page | Provide examples of similar activities performed in the area of the EOI |
|  |
| 7 | **Short CV of Key Staff Members** | 1 Page | Provide mini-bios of the key personnel that would be directly involved in the activities.  |
|  |
| A. | **Additional Material**  | Any additional document /section you believe relevant. |
|  |