

Monitoring & Evaluation (M&E) Plan and Impact Statement Form

Objective of the M&E Plan and Impact Statement:

- The M&E Plan and Impact Statement must be designed based on the Technical Assistance Response Plan and must enable the Implementer to complete the Closure Report at the end of the assistance.

Process for filling in the form:

- The Implementer must identify relevant quantitative and qualitative indicators as specified in the Closure Report. A sub-set of indicators to monitor and assess must be chosen from among these.
- The Implementer may also identify other specific, measurable, achievable, relevant, and time-bound indicators suitable to monitor Activities, Outputs and anticipated Outcomes from the technical assistance and add to the M&E Plan and Impact Statement.
- During implementation of the TA or FTA, the Implementer must collect all relevant data as described in the Monitoring & Evaluation Plan. Aggregated data on selected indicators as well as an updated version of the Impact Statement will be presented in the Closure Report at the end of the assistance.

Basic Information	
Title of response plan	Technical Assistance Towards the Development of a Project Proposal for the Implementation of Climate Adaptation and Mitigation Technologies to Address Climate Challenges in Specific Sectors Based on Uganda's Technology Needs Assessment Outcomes.
Technical assistance reference number	CTCN 23-015
Country/ countries	Uganda
NDE focal point and organisation	Dr. Samuel Okodi Team Leader, Infrastructure Innovations Bureau Science, Technology, and Innovation (STI) Secretariat, Office of the President. samuel.okodi@sti.go.ug Plot 106 Katalima Road, Naguru, Kampala, Uganda.
Sector(s) addressed	Energy, Agriculture, Water, and Forestry

Technologies supported	<p>Energy: Rooftop Solar PV systems, Efficient Cook Stoves, Bio-latrines</p> <p>Agriculture: crop breeding for climate adaptation, community-based irrigation systems, responsive agricultural extension.</p> <p>Forestry: Farmer Managed Natural Regeneration for forest landscape restoration, Integrated pest management (IPM) in natural forests and forest plantations, and promoting Forest based enterprises.</p> <p>Water: rainwater harvesting, deep-well water extraction and surface runoff water harvesting</p>
Implementation period and total duration	<p>December 2023 – December 2024</p> <p>12 months</p>
Total budget for implementation	USD 75,000
Designer of the response plan	Sustainable Solutions for Africa (SSA),
Implementer of response plan	Sustainable Solutions for Africa (SSA),

(A) Outputs and Activities as described in the Response Plan	(B) Indicator	(C) Expected results	(D) Method and frequency for data collection	(F) Comments
Output 1: Development of a response plan, implementation planning, and communication documents				
<p>Activity 1.1. Develop a response plan</p> <p>Activity 1.2. Formulate an implementation plan</p> <p>Activity 1.3. Develop a monitoring and evaluation plan</p> <p>Activity 1.4. Organize an inception meeting</p> <p>Activity 1.5. CTCN Impact Description (Initial version)</p> <p>Activity 1.6. Closure and data collection report</p>	<p><i>Select relevant indicators from the Closure Report (at least one core indicator, section B). You may also define additional relevant indicators to be added.</i></p> <p>The number of strengthened tools and technical documents reviewed or developed</p> <p>Number of participants in the inception meeting disaggregated by gender</p> <p>Number of stakeholder institutions represented at the inception meeting.</p> <p>Participant satisfaction with the planning and communication documents</p> <p>Number of deliverables produced during the assistance</p>	<p><i>Add the expected quantitative or qualitative target/value of the indicator (e.g. number of studies, policy recommendations, etc.).</i></p> <p>One (1) developed response plan submitted to the CTCN</p> <p>One (1) monitoring and evaluation plan approved by key stakeholders in ministries, secretariats, and organizations.</p> <p>One (1) implementation plan</p> <p>One (1) inception meeting report.</p> <p>The first CTCN impact description.</p> <p>Increased stakeholder capacity to draft compelling planning and communication documents in the context of CTCN technical assistance</p>	<p><i>Describe the expected method and frequency for data collection (e.g. survey, head count at a training workshop, application of a standard methodology etc.)</i></p> <p>List of tools and technical documents reinforced, revised, and/or developed at the end of outcome 1.</p> <p>Headcount of inception meeting participants disaggregated by gender.</p> <p>Meeting reports for all meetings held in the context of Output 1 and validated</p> <p>List of key stakeholders represented or participating in the inception meeting and validation of planning and communication documents.</p>	<p><i>Describe any assumptions made or anticipated challenges for collecting quantitative and qualitative data</i></p> <p>The identified indicators will be contrasted with monitored/collected data to reflect on challenges and craft recommendations for future replications.</p>

(A) Outputs and Activities as described in the Response Plan	(B) Indicator	(C) Expected results	(D) Method and frequency for data collection	(F) Comments
	Anticipated number of collaborations enabled by the TA			
Output 2: A conceptual framework leading to the project proposal for leveraging finance from entities under the financial mechanism of the UNFCCC giving due consideration to identifying key considerations for Improving quantity and quality of agricultural produce and services including enhancement of food security.				
Activity 2.1. Kick-off workshop with key stakeholders.	<p>Total number of deliverables produced as a result of Activity 2.1.</p> <p>Number of materials used to deliver the workshop including presentations and other data.</p> <p>Number of participants in the workshop disaggregated by gender (percentage of men and women)</p> <p>Number of stakeholder institutions present at and trained during the workshop.</p> <p>Percentage of participants reporting satisfaction with the CTCN presentations and trainings.</p> <p>Percentage of participants reporting increased knowledge, capacity, and/or understanding as a result of the CTCN workshop.</p>	<p>A gender-balanced participation at the kick-off workshop (ideally 50% women)</p> <p>A variety of national stakeholders present during the workshop.</p> <p>Increased knowledge, capacity, and understanding of project proposal development by attendees.</p> <p>At least 75% satisfaction from the presentations and trainings.</p> <p>At least 1 representative from each of the 10 districts in the project area.</p> <p>One (1) workshop report, meeting minutes, and notes submitted to proponents.</p>	<p>Registration of participants details including names, gender, position, and institution.</p> <p>Surveys to collect data on workshop satisfaction as well as ratings for increased knowledge and capacity.</p> <p>Workshop minutes, summary, and report for dissemination to proponents.</p>	

(A) Outputs and Activities as described in the Response Plan	(B) Indicator	(C) Expected results	(D) Method and frequency for data collection	(F) Comments
<p>Activity 2.2. Draft a conceptual framework leading to the project proposal.</p>	<p>Number of deliverables produced as a result of Activity 2.2.</p> <p>Number of collaboration meetings held with proponents and other stakeholders in development of the conceptual framework</p>	<p>One (1) conceptual framework produced at the end of activity 2.2.</p> <p>At least one meeting between key stakeholders to contribute to and validate the conceptual framework</p>	<p>List of meeting participants disaggregated by gender.</p> <p>Meeting minutes, summary, and report to be shared with participants.</p> <p>Survey to collect feedback on satisfaction with the conceptual framework draft.</p>	
<p>Activity 2.3. Preparation of a comprehensive concept note with the project's objectives, expected outcomes, and strategic approach.</p>	<p>Total number of deliverables produced during activity 2.3.</p> <p>Number of policy/strategy instruments studied.</p> <p>Amount of public/private and grant/loan resources to be requested.</p> <p>Number of prioritized technologies, including quantities per technology, to be implemented in the concept note.</p> <p>Technology distribution per district in Eastern Uganda.</p>	<p>One (1) concept note to be submitted to the Green Climate Fund with the prioritized technologies.</p> <p>A strategic approach with 12 technologies to be implemented in four sectors.</p> <p>One (1) stakeholder meeting to validate the concept note prior to submission to the GCF.</p> <p>At least 4 normative instruments studied in the creation of the concept note.</p>	<p>List references (technical documents, or policies studies during the development of the concept note.</p> <p>List of participants in the concept validation meeting and other collaborations.</p> <p>List of prioritized technologies to be implemented in the 30 sub-counties</p>	

(A) Outputs and Activities as described in the Response Plan	(B) Indicator	(C) Expected results	(D) Method and frequency for data collection	(F) Comments
	<p>Number of collaboration and validation meetings organized/enabled with the project proponents and other key stakeholders.</p>			
<p>Activity 2.4. Development of the Project Preparation Facility (PPF)</p>	<p>Amount of funding (public/private or grant/loan) used for the development of the PPF.</p> <p>Number of deliverables developed as a result of activity 2.4.</p> <p>Number of collaborations enabled by the development process.</p> <p>Results of the M&E of during the development of the PPF</p>	<p>One (1) PPF package including all necessary assessments such as environmental, social and gender studies, risk assessments, etc.</p> <p>At least three (3) local stakeholders involved in the delivery of the different components of the PPF.</p>	<p>Recruitment of consultants for the different assessments required under the PPF.</p>	
<p>Output 3: Engage local counterparts in Uganda to facilitate the process of developing the proposal.</p>				
<p>Activity 3.1. Create first draft of the project proposal.</p>	<p>Anticipated GHG emissions to be avoided by the project.</p> <p>Amount of public/private funding requested either through grant/loan.</p> <p>Number of technologies to be implemented in the different districts.</p>	<p>Anticipated to request USD 10,000,000 grant from the Green Climate Fund (GCF).</p> <p>Anticipated technologies to be implemented will be 12.</p> <p>One (1) draft of the project proposal</p>	<p>Consultation from the TAP to gather important information on targeted beneficiaries under each technology.</p> <p>Review of the TAP for anticipated GHG emissions to be avoided and consultation with local stakeholders on methodology used.</p>	<p>The TAP includes information on anticipated beneficiaries as well as GHG emissions to be avoided by the implementation of priority technologies.</p>

(A) Outputs and Activities as described in the Response Plan	(B) Indicator	(C) Expected results	(D) Method and frequency for data collection	(F) Comments
	Number of anticipated beneficiaries of the project (direct and indirect).		Progress tracking tool.	
Activity 3.2. Consult the Ministry of Water and Environment and other key stakeholders to obtain their input into the proposal.	<p>Number of collaborations between stakeholders enabled by activity 3.2.</p> <p>Number of meetings held during the stakeholder consultation process.</p> <p>Number of participants in the above stakeholder consultations disaggregated by gender.</p> <p>Percentage of participants reporting satisfaction with the proposal.</p> <p>Percentage of participants reporting increased knowledge and understanding from this activity.</p>	<p>Two (2) anticipated stakeholder consultation meetings to validate the proposal.</p> <p>Ideally five 75% of key stakeholders consulted and their input obtained.</p> <p>A gender-balanced participation during this activity.</p> <p>Ideally 90% satisfaction rate with the proposal at the end of the activity.</p> <p>80 percent of participants reporting increased knowledge and understanding from this activity.</p>	<p>Lists of meetings, participants, their genders, positions, and organizations</p> <p>Paper or digital survey to collect satisfaction and increased knowledge data from the participants.</p> <p>Stakeholder mapping.</p>	
Activity 3.3. Presenting the draft project proposal to the target communities to obtain their input on the proposal.	<p>Number of presentation sessions/meetings held with local community members during activity 3.3.</p> <p>Number of participants during these meetings disaggregated by gender.</p>	<p>Inclusive participation of women (at least 40%) and youth from all the 30 sub-counties.</p> <p>At least two (2) meetings held with local community members including one with all groups and another to specifically obtain input from women.</p>	<p>One (1) project proposal with input from local communities.</p> <p>Lists of participants in all local meetings held disaggregated by gender.</p>	

(A) Outputs and Activities as described in the Response Plan	(B) Indicator	(C) Expected results	(D) Method and frequency for data collection	(F) Comments
	Number of focus groups involving farmers, technology providers, local government, women and youth, created during this activity.		<p>Reports of all meetings held in local communities in the context of the project proposal.</p> <p>List all key community groups such as farmers, CSOs, etc present at community meetings.</p>	
Output 4: Validation of the project proposal				
<p>Activity 4.1. Organize a workshop of stakeholders to validate the proposal.</p> <p>Activity 4.2. Integrate input from the workshops and consultations for the development of a final proposal.</p>	<p>Total number of deliverables produced as a result of Activity 2.1.</p> <p>Number of participants in the workshop disaggregated by gender (percentage of men and women)</p> <p>Number of stakeholder institutions present at and trained during the workshop.</p> <p>Percentage of participants reporting satisfaction with the proposal and suggestions on how to improve it.</p> <p>Percentage of participants reporting increased knowledge, capacity, and/or understanding as a result of the CTCN workshop.</p>	<p>A gender-balanced participation at the kick-off workshop (at least 50% women)</p> <p>A variety of national stakeholders present during the workshop.</p> <p>Increased knowledge, capacity, and understanding of project proposal development by attendees.</p> <p>At least 90% satisfaction with the proposal</p> <p>At least 1 representative from each of the 10 districts in the project area.</p>	<p>Registration of participants details including names, gender, position, and institution.</p> <p>Paper or digital surveys to collect data on workshop satisfaction as well as ratings for increased knowledge and capacity.</p> <p>Workshop minutes, summary, and report for dissemination to proponents.</p>	<p>Questionnaires will be distributed to the participants either in paper form or through a QR Code to collect specific data on select indicators.</p>

(A) Outputs and Activities as described in the Response Plan	(B) Indicator	(C) Expected results	(D) Method and frequency for data collection	(F) Comments
		<p>One (1) workshop report, meeting minutes, and notes submitted to proponents.</p> <p>One (1) validated project proposal submitted to the Green Climate Fund (GCF) for review.</p>		
Output 5: Submit the final project proposal to GCF				
<p>Activity 5.1. Address feedback received from the GCF.</p> <p>Activity 5.2: Finalizing the Annexes.</p> <p>Activity 5.3: Submit to the GCF final proposal with comments addressed.</p>	<p>Number of comments received from the GCF.</p> <p>Number of meetings held to address the comments received.</p> <p>Number of annexes added to the final project proposal.</p>	<p>One (1) project proposal with comments addressed along with all annexes and the PPF package.</p> <p>Annexes: environmental and social impact assessment (ESIA) and management plan (ESMP), gender and social inclusion document, stakeholder engagement plan, etc.</p> <p>At least one (1) internal meeting held to address comments and confirm the final proposal.</p>	<p>Final meeting notes and summary.</p> <p>List of participants in the meeting disaggregated by gender.</p> <p>Different assessment and planning reports</p>	
<p>Activity 5.4: Drafting the CTCN final report.</p>	<p>Amount of data collected throughout the implementation process.</p> <p>Number of deliverables</p>	<p>One (1) final report to the CTCN.</p>	<p>Final report with all relevant data</p>	

Note: The Response Plan may contain information useful for the section below. The information in the table below will be used by the CTCN for public communication of the achieved and expected results of the Technical Assistance through the CTCN website www.ctc-n.org and other communication channels. See for example: https://www.ctc-n.org/sites/www.ctc-n.org/files/benin_ag_forestry.final_.pdf

Impact Statement	
Challenge	<p><i>Approximately 500 characters with space</i></p> <p>In its national effort to adapt to climate change, Uganda faces the challenge of limited capacity to develop appropriate and fundable project proposals to enable access to climate finance from the established financial mechanisms under the UNFCCC. This has resulted in a lack of sufficient funds to implement major national climate change mitigation/adaptation strategies such as climate smart technologies, selected from the Technology Action plan (TAP), in different parts of the country.</p>
CTCN assistance	<p><i>2 to 4 bullet points. Approximately 450 characters with space</i></p> <ul style="list-style-type: none"> ● To address the challenge, the CTCN is providing assistance for the development of a detailed fundable proposal to be submitted to the GCF to leverage climate finance to support the implementation of climate change adaptation and mitigation technologies in the Ugandan identified in the TNA outcomes and TAPs. ● To develop a conceptual framework leading to a project proposal for leveraging finance from entities under the financial mechanism of the UNFCCC considering identify key considerations for Improving quantity and quality of agricultural produce and services including enhancement of food security
Anticipated impact	<p><i>2 to 4 bullet points. Approximately 250 characters with spaces. Include at least one of the core impact indicators from the Closure Report.</i></p> <ul style="list-style-type: none"> ● Upon successful implementation of the assistance, the project is anticipated to save an estimated 112,730 tons of firewood over five years, resulting in decreased deforestation and reduce greenhouse gas emissions from the energy sector by a combined 1,668,572 tons CO₂ eq. which will result in a reduction of respiratory diseases from burning wood for energy. ● The increased water stocks from rainwater harvesting and wetland restoration will increase access to water resources for household and commercial use and agricultural irrigation thus reducing crop loss from droughts. This will result in increased crop yields and food availability in local communities. ● The knowledge sharing through targeted training and stakeholder collaboration are expected to increase their technical capacity to develop fundable project proposals to access climate finance in the future.
Anticipated co-benefits from the TA	<p><i>Instruction: Please indicate expected co-benefits as described in the response plan and in the relevant deliverables</i></p> <p>The deployment of prioritized climate-resilient technologies in Eastern Uganda holds the promise of fostering a range of co-benefits across various sectors. The heart of this initiative is the potential for economic diversification, as the implementation of technologies in agriculture and</p>

	<p>energy could create new business opportunities, contributing to a more dynamic and resilient economy. This, in turn, may lead to job creation, particularly in the renewable energy and technology sectors, offering a positive impact on employment and livelihoods.</p> <p>Furthermore, the project emphasizes health improvements through the promotion of technologies which have less greenhouse gases compared to the alternative. These measures have the potential to enhance indoor air quality, mitigating respiratory issues and promoting overall well-being. Simultaneously, the focus on constructing bio-latrines and improved cooking stoves in schools will create a more conducive learning environment, directly impacting the quality of education.</p> <p>In the environmental realm, the project aims to contribute to water conservation through the prioritized technologies in the water sector. Additionally, the adoption of sustainable practices, such as farmer managed natural regeneration in the forestry sector, may lead to biodiversity conservation and the restoration of natural ecosystems. By reducing reliance on traditional energy sources like firewood, the project could contribute to a decrease in deforestation, aligning with broader goals of forest conservation.</p>
<p>Gender aspects of the TA</p>	<p><i>Instruction: Please indicate if technical assistance will be supported by a gender analysis. Describe expected gender benefits as described in the response plan and in the relevant deliverables</i></p> <p>The technical assistance will indeed be supported by a gender assessment.</p> <p>With a committed gender-responsive approach, this initiative is designed to ensure equitable access to and benefits from climate technologies for both men and women. The consideration of women’s perspectives and experiences during workshops and consultations will ensure that technologies are appropriate and uplift women’s welfare in society.</p> <p>The increased access to climate technology information by women will not only empower them through socio-economic upliftment but also position them at the forefront of seizing opportunities for enhanced income and livelihoods through green jobs. The consideration of gender dynamics in the local context will enable the safeguarding of women’s livelihoods and rights.</p> <p>Additionally, the project will ensure gender-balanced participation in all its activities including the involvement of women-led groups and Civil Society Organizations advocating for gender equality. This commitment to inclusivity will not only enrich the impact of the project but also establish a model for integrating gender considerations into future projects and national initiatives.</p>
<p>Contribution to NDC</p>	<p><i>2 to 4 bullet points. Approximately 350 characters with spaces.</i></p> <ul style="list-style-type: none"> • By enabling the deployment and implementation of climate smart technologies such as rainwater harvesting, Solar PV, efficient cookstoves, etc., the TA directly contributes to the adaptation priority actions outlined in Section 2.2 of the 2022 Updated NDC in the water, energy, forestry, and agriculture sectors. • Section 3.3, page 41 of Uganda’s NDC, the country has committed to halt and reverse forest loss and land degradation by 2030 and to increase forest cover from an estimated 12.5% in 2020 to 15% in 2025 and 21% in 2030. This TA will directly contribute to this goal. • The TA's focus on building the capacity of stakeholders to implement the Technology Action Plan (TAP) and fostering increased

	<p>coordination, collaboration, and knowledge sharing directly supports Section 4.2, which emphasizes capacity building for institutions and the public.</p> <ul style="list-style-type: none"> Furthermore, the TA's gender-sensitive approach aligns with and bolsters the gender mainstreaming efforts outlined in Section 4.3 of the NDC, thus contributing to the broader national climate agenda of the country
<p>The narrative story</p>	<p><i>Approximately 1200 characters with spaces</i></p> <p><i>Please provide a brief description of the background and context for the technical assistance. Describe the main problems and barriers for climate change mitigation and/or adaptation in terms of climate technologies that the CTCN technical assistance will address.</i></p> <p>Uganda's steadfast commitment to combating climate change is evident through national initiatives and policies such as the Climate Change Bill (2020) and the National Climate Change Policy. However, persistent vulnerabilities in crucial sectors disrupt socioeconomic progress. As a result, a Technology Needs Assessment (TNA) was conducted to identify priority sectors, barriers to climate technology deployment, and develop a Technology Action Plan (TAP).</p> <p>The TAP prioritized 12 technologies across selected sectors including crop breeding, community-based irrigation, rainwater harvesting, rooftop solar systems, and forest landscape restoration. Despite these initiatives, challenges in deploying the technologies persist, driven by high costs, ambiguous tax policies, and limited access to financial mechanisms. Knowledge gaps, awareness deficits, and skills shortages further hinder technology adoption, while private sector investment and income constraints pose further obstacles.</p> <p>As a result, the Government of Uganda seeks assistance to prepare a viable fundable project proposal to the Green Climate Fund (GCF), aiming to access funding to deploy prioritized technologies in Eastern Uganda. This initiative aims to foster sustainable development and enhance climate resilience at the sub-national level.</p>
<p>Contribution to SDGs</p>	<p><i>To the extent possible, please describe contributions to approximately 3 SDGs, including SDG13, with a few sentences for each SDGs concerned. A complete list of SDGs and their targets is available here: https://sustainabledevelopment.un.org/partnership/register/.</i></p> <p>SDG 2: End hunger, achieve food security and improved nutrition, and promote sustainable agriculture</p> <p>By implementing technologies that limit post-harvest losses and community-based irrigation systems, the TA will reduce vulnerabilities, increase agricultural yields and food reserves resulting in increased food security for the local communities in Eastern Uganda.</p> <p>SDG 5: Achieve gender equality and empower all women and girls</p> <p>The technical assistance is strategically designed to champion gender equality and inclusivity across every facet of the project. Through the integration of a</p>

	<p>gender-responsive approach, the project seeks to establish and uphold equal opportunities for both men and women in accessing and deriving benefits from climate technologies, with a specific focus on the target sectors. By prioritizing a gender-responsive approach, the project aims to create a more inclusive and empowering environment, recognizing the pivotal role that gender equality plays in the successful adoption and impact of climate technologies in critical sectors.</p> <p>SDG 13.b: Promote mechanisms for raising capacity for effective climate change-related planning and management in least developed countries and small island developing States, including focusing on women, youth and local and marginalized communities</p> <p>The Technical Assistance (TA) is carefully crafted to cultivate a profound understanding of climate technologies, emphasizing both adaptation and mitigation strategies within the targeted sectors. The TA aims to empower stakeholders with the tools needed for informed decision-making and the successful implementation of effective climate change action technologies. Furthermore, the TA places emphasis on engaging diverse stakeholders, including local communities and civil society, fostering inclusivity and ensuring that climate resilience efforts resonate with the unique contexts of the targeted sectors. This comprehensive and adaptive approach positions the TA as a key driver in building resilience and facilitating sustainable responses to the evolving challenges of climate change in the country.</p>
Reference to knowledge products	<p><i>Please indicate if any UNFCCC Technology Executive Committee (TEC) knowledge products (publications, briefs, tools etc.) were used in the development of the TA request and/or are envisaged to be used during implementation of the technical assistance.</i></p> <p><i>Link to TEC knowledge database:</i> https://unfccc.int/ttclear/tec/documents.html</p> <p><i>Which knowledge products do you envisage to use? Please list</i></p> <p>The development of the TA request will utilize the following knowledge products of the UNFCCC TEC:</p> <ul style="list-style-type: none"> • Technology and NDCs: Stimulating the Uptake of Technologies in Support of NDC Implementation • Climate technology report 2023; • Technology and Nationally Determined Contributions 2023; • Good practices and lessons learned on the setup and implementation of National Systems of Innovation.

References:

GOU Government of Uganda. (2021). Technology Action Plan – Mitigation, <https://tech-action.unepccc.org/wp-content/uploads/sites/2/2022/04/uganda-tap-report-mitigation-report.pdf> Accessed 9th January 2024

GOU Government of Uganda. (2021). Technology Action Plan – Adaptation. <https://tech-action.unepccc.org/wp-content/uploads/sites/2/2022/04/uganda-tap-report-adaptation-report.pdf>

MoWE Ministry of Water and Environment. (2022). Updated Nationally Determined Contributions (NDC). https://unfccc.int/sites/default/files/NDC/202209/Updated%20NDC%20Uganda_2022%20Final.pdf Accessed 28th December 2023