



ADAPTATION FUND

AFB/PPRC.31/55
27 February 2023

Adaptation Fund Board
Project and Programme Review Committee
Thirty-first Meeting
Bonn, Germany, 21-22 March, 2023

Agenda Item 11 d)

PROPOSAL FOR INNOVATION SMALL GRANT FOR UGANDA

Background

1. At its thirtieth meeting, having considered document AFB/B.30/5/Rev.1, the Adaptation Fund Board decided:

(a) To adopt the medium-term strategy as amended by the Board, as contained in the Annex 1 of the document AFB/B.30/5/Rev.1 (the MTS); and

(b) To request the secretariat:

(i) To broadly disseminate the MTS and work with key stakeholders to build understanding and support;

(ii) To prepare, under the supervision of the MTS task force, a draft implementation plan for operationalizing the MTS, containing a draft budget and addressing key assumptions and risks, including but not limited to funding and political risks, for consideration by the Board at its thirty-first meeting; and

(iii) To draft, as part of the implementation plan, the updates/modifications to the operational policies and guidelines of the Adaptation Fund needed to facilitate implementation of the MTS, for consideration by the Board at its thirty-first meeting.

(Decision B.30/42)

2. Pursuant to decision B.30/42, subparagraph b (ii), the secretariat prepared a draft implementation plan for the MTS, including an assessment of assumptions and risks. The secretariat shared a version of the draft with the MTS task force for comments.

3. The draft implementation plan also contains suggestions for specific funding windows that might be opened under the MTS in complement of the Fund's existing funding windows for single-country and regional adaptation projects and readiness support projects. Following the approval of the implementation plan, the secretariat would present specific proposed details for each new funding window at subsequent meetings of the Board for its consideration, in accordance with the timeline contained in the implementation plan.

4. At its thirty-first meeting, the Adaptation Fund Board discussed the draft implementation plan for the MTS, and members of the Board proposed amendments to the document. The secretariat then presented a revised draft, in document AFB/B.31/5/Rev.1. Having considered that document, the Board decided:

(a) To approve the implementation plan for the medium-term strategy for the Fund for 2018–2022 contained in the Annex I to document AFB/B.31/5/Rev.1 (the plan);

(b) To request the secretariat:

[...]

- (iii) *To prepare, for each proposed new type of grant and funding window, a specific document containing objectives, review criteria, expected grant sizes, implementation modalities, review process and other relevant features and submit it to the Board for its consideration in accordance with the tentative timeline contained in Annex I to document AFB/B.31/5/Rev.1, with input from the Board's committees;*
- (iv) *Following consideration of the new types of support mentioned in subparagraph (b)(iii), to propose, as necessary, amendments to the Fund's operational policies and guidelines Fund to better facilitate the implementation of such new types of support; and*

[...]

(Decision B.31/32)

5. At its thirty-second meeting, the Board considered document AFB/PPRC.23/4/Rev.2, *Program on Innovation: Small Grants Projects through Direct Access Modality*, and the Board decided:

- (a) *To approve the process for providing funding for innovation through small grants to National Implementing Entities (NIEs), as described in document AFB/PPRC.23/4/Rev.2, including the proposed objectives, review criteria, expected grant sizes, implementation modalities, review process and other relevant features as described in the document; and*
- (b) *To request the secretariat to prepare the first request for proposals to NIEs for US\$ 2 million, to be launched at the twenty-fourth session of the Conference of the Parties to the United Nations Framework Convention on Climate Change in December 2018.*

(Decision B.32/4)

6. Subsequently, the first request for proposals to NIEs for US\$ 2 million was launched at the UNFCCC Conference of the Parties in December 2018.

7. The secretariat is submitting to the PPRC the summary and, pursuant to decision B.17/15, the final technical review of the project, both prepared by the secretariat, along with the final submission of the proposal in the following section. In accordance with decision B.25.15, the proposal is submitted with changes between the initial submission and the revised version highlighted or with track changes.



ADAPTATION FUND

ADAPTATION FUND BOARD SECRETARIAT TECHNICAL REVIEW OF PROJECT/PROGRAMME PROPOSAL

PROJECT/PROGRAMME CATEGORY: Innovation Small Grant

Country/Region: Uganda
Project Title: Climate Change Adaptation Through Operationalization of Vertical Shaft Brick Kiln Technology for Bricks Manufacturing and livelihood enhancement in Iganga District
Thematic Focal Area: Nature-based solutions, social innovation
Implementing Entity: Ministry of Water and Environment
AF Project ID: AFRDG00066
IE Project ID: **Requested Financing from Adaptation Fund (US Dollars):** 250,000
Reviewer and contact person: Rywon Yang **Co-reviewer(s):** Alyssa Gomes, Saliha Dobardzic
IE Contact Person: James Kaweesi

Technical Summary:	<p>The project “Climate Change Adaptation Through Operationalization of Vertical Shaft Brick Klin Technology for Bricks Manufacturing and livelihood enhancement in Iganga District” aims to adapt to climate change through operationalizing the Vertical Shaft Brick Klin Technology for brick manufacturing and livelihood enhancement in Iganga district. This will be done through the three components below:</p> <p><u>Component 1:</u> Operationalization of a Vertical Shaft Brick Kiln (VSBK) manufacturing technology that contributes to climate change adaptation (USD 95,000).</p> <p><u>Component 2:</u> Developing, sharing information, and training project beneficiaries on climate change adaptation best practices (USD 50,000).</p> <p><u>Component 3:</u> Promotion of nature-based solutions for alternative community livelihoods (USD 47,500).</p> <p><u>Requested financing overview:</u></p> <p>Project/Programme Execution Cost: USD 39,000 Total Project/Programme Cost: USD 231,500</p>
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	<p>Implementing Fee: USD 18,500 Financing Requested: USD 250,000</p> <p>The first technical review raised some issues, such as the lack of a climate change adaptation justification, climate change adaptation innovation rationale, a concise problem statement, and cohesion among components, as discussed in the number of Clarification Requests (CRs) and Corrective Action Requests (CARs) raised in the review.</p> <p>The second technical review finds that majority of CRs and CARs are not sufficiently addressed. In cases where they are addressed, the revisions are not reflected in the proposal main text. The review finds that the climate change adaptation rationale for the proposed technology (Vertical Shaft Brick Kiln Technology for Bricks Manufacturing and livelihood enhancement) is not fully justified.</p>
Date:	12 February 2023

Review Criteria	Questions	Comments First Technical Review	Comments Second Technical Review
Country Eligibility	1. Is the country party to the Kyoto Protocol?	Yes.	-
Project Eligibility	1. Has the designated government authority for the Adaptation Fund endorsed the project/programme?	Yes. The endorsement letter signed by the Minister of State of Ministry of Finance, Planning and Economic Development (MOFPED).	-
	2. Does the project / programme support concrete adaptation actions to assist the country in addressing adaptive capacity to the adverse	Not cleared. The proposed project is comprised of three components. The first is to introduce Vertical	CR 1: Not cleared. The adaptation project is defined as a set of activities aimed at addressing the adverse impacts

	<p>effects of climate change and build in climate resilience?¹</p>	<p>Shaft Brick Kiln technology (VSBK) to improve the traditional brick manufacturing process in the Iganga district, which is causing degradation of the swamp ecosystem, deforestation, soil erosion, and pollution of rivers and lakes. At first sight, the technology, while it improves the energy efficiency of brick making, does not qualify as an adaptation solution since it does not address the adverse impacts of and risks posed by climate change. The main benefit of adopting this technology is GHG mitigation potential.</p> <p>CR 1: Please justify the climate change adaptation rationale of the proposed solution by clarifying how the VSBK is qualified as an adaptation solution and what the adaptation benefits are, if there are any, especially in comparison to traditional practice. Once the</p>	<p>of and risks posed by climate change. This should be distinguished from environmental protection projects by clearly demonstrating that the proposed adaptation measures are suited or adequate for the identified climate threats. The adaptation justification of this project does not sufficiently explain this. The problem stated in the proposal is the unsustainable use of wetlands for clay and water, excessive deforestation, and degradation of fuel wood by traditional brick manufacturing methods. This problem results from human-induced environmental degradation activities rather than from climate threats. The benefits of VSBK are twofold: 1) it would use less clay & water and fewer trees than existing technology, so less environmentally degrading, and 2) it would produce less</p>
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¹ A concrete adaptation project/programme is defined as a set of activities aimed at addressing the adverse impacts of and risks posed by climate change. The activities shall aim at producing visible and tangible results on the ground by reducing vulnerability and increasing the adaptive capacity of human and natural systems to respond to the impacts of climate change, including climate variability. Adaptation projects/programmes can be implemented at the community, national, regional and transboundary level. Projects/programmes concern activities with a specific objective(s) and concrete outcome(s) and output(s) that are measurable, monitorable, and verifiable. (Source: Operational Policies and Guidelines, amended October 2017)

		<p>adaptation benefit is specifically identified, it is preferable to elaborate further on the GHG mitigation potential in quantitative terms.</p> <p>The general overview of the three (3) project components is insufficient to clarify the scope and rationale for the proposed interventions.</p> <p>CAR 1: Please systematically list and describe project outputs and activities in the component's descriptions in 'Project Justification' Section II.A.</p> <p>The proposed activity on VSBK aims to "operationalize" the United Nations Development Programme under the Global Environment Facility, small grants programme to establish a Demonstration on innovation of Energy Efficient Brick Kiln (Vertical Shaft Brick Kiln - VSBK) in Bubogo B Village, Namukesu Parish, Namung'alwe Sub-County, Iganga District</p> <p>The proposal states that due to the limited funding of the previous</p>	<p>emission, which provides mitigation co-benefits. However, the proposal does not include activities or efforts that would ensure that efficiency of resource use translates into sustainable resource use, avoiding the Rebound Effect (Thiesen et al. (2008)) So, while conserving natural resources is indeed a resilience-building strategy, it is not clear that all the elements required to ensure this happens are in place. Therefore, the climate change adaptation rationale of the proposed solution has not been sufficiently justified.</p> <p><u>Please include or describe strategies that will ensure sustainability of natural resources, e.g. limits on exploitation, even if more efficient.</u></p> <p>CAR 1: Not cleared. The response sheet did clarify the issues. However, please reflect this in the proposal Part II. A.</p> <p>CR 2: Not cleared.</p>
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		<p>project (page 7), the VSBK facility is not operational.</p> <p>CR 2: Please provide more explanation on the exact output of the previous project supported by UNDP GEF SGP in 2018, the current status of the VSBK facility after the completion of the project, and the gap that the project is aiming to address.</p> <p>The proposal also explains that the required budget to erect one VSBK machinery is 35,000 USD (page 13). The requested budget in this proposal for assorted machinery is 61,000 USD.</p> <p>CR 3: Please explain further why assorted machinery costs more than the actual machine itself, and please provide the details of the budget item to support the reasoning.</p> <p>The second component aims to develop knowledge management and information sharing systems, training of youth and key stakeholders. However, the direct beneficiary group is unclear. The</p>	<p>Please explain why the UNDP project was only designed to erect a structure that is non-functional without any other assorted machinery or equipment. The proposal needs to need to explain the issue clearly. A photo of the erected structure or a diagram of the design element could be beneficial to explain the situation.</p> <p>CR 3: Not cleared. Please provide the approximate quotation of each equipment and machinery that is listed in the response.</p> <p>CR 4: Not cleared. The response sheet did clarify the issues; however, it is not reflected in the proposal. Please reflect in Part II. A. on the objective of the component. Also, Please reflect the outputs (target indicators) in the result framework table (PART III. C)</p> <p>CR 5: Cleared, page 9. The response sheet states that project staff will develop the IEC</p>
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		<p>number of youths participating in the exchange visit and learning forums (activities of component 2 is not unspecified, who will be selected as participants, would there be any criteria in the selection process, etc. Furthermore “key stakeholders” is also unclear. (For example, would they be the same key stakeholders targeted in component 1?)</p> <p>CR 4: Please explain further the objective of the second component, the selection criteria for youth and other stakeholder, and the expected output in a measurable term.</p> <p>CR 5: Please explain what “IEC” materials is and clarify who will develop the IEC materials and documents on lessons and good practices.</p> <p>CR 6: Please provide more information on the exchange visit of activity 2.1 – who will participate and the expected outcome</p>	<p>(Information, Education, and Communication) materials.</p> <p>CR 6: Cleared. The exchange visit activity has been deleted.</p> <p>CAR 2: Not cleared. The targets of the second component have been clarified in the response sheet. However, it is not reflected in the results framework table (PART III.C). Please include a column in the results framework table and add the targets of each component.</p> <p>CR 7: Not cleared. The adaptation justification provided for the eight (8) nature-based solutions in the response sheet is that it will change human behavior from causing human-induced environmental damaging activities. The activities supported by AF should be distinguished from environmental protection projects by clearly demonstrating that the proposed adaptation measures are suited or adequate</p>
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		<p>CAR 2: Please include result indicators and targets of the second component in the results framework (PART III. C).</p> <p>The third component is to roll out Nature-based Solutions (NbS) to improve community livelihoods. However, the climate change adaptation rationale for implementing NbS in the target areas is unclear.</p> <p>CR 7: Please explain further the climate risk and vulnerabilities that the target region is facing and how the proposed eight (8) nature-based solutions will build resilience to these climate challenges.</p> <p>CR 8: Once the climate rationale for pursuing NbS is established through CR7, please elaborate further on the objective and output of this component.</p> <p>It is unclear what 'market linkages, or 'adopting entrepreneur skills', means in the context of the project.</p>	<p>for the identified climate threats. The justification needs to explain what are the climate risks and threats that the target region is facing rather than only explaining the results of the environmentally degrading human activity and how the proposed NbS will build resilience to those climate challenges. Please strengthen the adaptation justification.</p> <p>CR 8: Not cleared.</p> <p>The response sheet did clarify the issues; however, it is not reflected in the proposal. Please reflect this in the proposal Part II.A.</p> <p>CR 9: Cleared.</p> <p>The project will identify consumers for the products from the 8 nature-based solutions. The means of verification will be purchase orders or service contracts.</p> <p>CR 10: Not cleared.</p> <p>The activity has been clarified to develop business plans and business proposals. The</p>
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		<p>CR 9: Please explain further what market linkages mean, and what means of verification would be applied.</p> <p>CR 10: Please explain further what 'adopting entrepreneur skills' would mean and how it will be measured. If necessary, please revise the indicator to a measurable, monitorable, and verifiable indicator. (ex., development of business proposals, plans, or concepts)</p> <p>CAR 3: Please revise the results framework (PART III. C., pages 16-18), by separating the indicator from the target.</p> <p>CAR 4: Please revise the first indicator ("60% adopt VSBK technology for brick making") of Objective 1 by clarifying the object of the %. (60% of what?)</p> <p>CAR 5: Once the results framework is revised as per CAR 3, please revise the project outcome indicators of the table in</p>	<p>indicator has also been revised to a measurable, monitorable, and verifiable indicator. However, the target number of the result is not stated in the result framework (PART III.C). Please include a column in the results framework table and add the targets of each component.</p> <p>CAR 3: Not cleared. The target column is still missing from the result framework table. Please revise.</p> <p>CAR 4: Not cleared. The indicator could be 'the number of people', and the target would be 'xxx people'. Please revise the result framework table (PART III. C.)</p> <p>CAR 5: Not cleared. Please realign the project objective – outcome and doublecheck the project objective indicators and project outcome indicators. The indicators of component 2 are missing. Project outcome indicators should be measurable</p>
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		<p>PART III. D (alignment with the Results Framework of the AF).</p> <p>CR 11: Please clarify what the overall goal and objective of this project are and how the three components are linked with each other to achieve that goal.</p>	<p>and verifiable. The grant amount in the first line is missing.</p> <p>Regarding the alignment with the results framework of the AF, for example, if a project objective is aligned with fund outcome 3, the project outcome of the said project objective should be aligned with the fund output 3.1 and/or 3.2. Please revise the table.</p> <p>CR 11: Not cleared. As long as the adaptation justification of the overall project goal is not sufficiently established, it is hard to determine how these components are aligned and linked to achieving that goal. Please strengthen the adaptation justification.</p>
	3. Does the project encourage or accelerate development of innovative adaptation practices, tools and technologies?	<p>Not cleared.</p> <p>The proposal suggests that the VSBK has the potential to create a commercially viable revenue model by brick sales and eventually attract private funds for scale-up. However, the climate</p>	<p>CR 12: Not cleared.</p> <p>While VSBK has the potential to contribute to an adaptation solution, it is not clear that this project would be environmentally sustainable and ensuring that the resilience of the ecosystem would be maintained. The proposal would</p>

		<p>change adaptation innovation rationale of the proposed activity is unclear.</p> <p>CR 12: Please elaborate further on how the application of VSBK technology is a new, adapted or improved innovative adaptation solution.</p> <p>CR 13: Please clarify how communities most vulnerable to climate change in the target areas were involved in the decision to implement the proposed solution and how they will be involved moving forward in the implementation of proposed innovations.</p> <p>CR 14: Please include an explanation of what aspects of the activities of components 2 and 3 are innovative approaches, technologies, and/ or mechanisms.</p>	<p>need to provide clear information on how the community will be able to safeguard ecosystem resilience even if the technology is highly successful and there is demand for replication and scaling up.</p> <p>CR 13: Not cleared. Please summarize the results of the participatory needs assessment and baseline survey briefly and provide information on how those results have been reflected in the project design.</p> <p>CR 14: Not cleared. Component 2 takes an innovative approach by involving youth and using diverse multimedia tools (documentary, website, social media, etc.) to promote climate change adaptation information.</p> <p>Component 3 also encourages youths to explore economic ventures through nature-based solutions, which are an innovative approach to ensure</p>
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			<p>the viability of adaptation practices.</p> <p>The response sheet addressed the issue; however, it is not reflected in the proposal. Please reflect on the responses in the proposal.</p>
	<p>4. Does the project help generate evidence base of effective, efficient adaptation practices, products or technologies, as a basis for potential scaling up?</p>	<p>Not cleared.</p> <p>For the VSBK technology application, the proposal mentions that the project has the potential to be commercially viable. However, the cost-effectiveness and sustainability of the intervention are not sufficiently explained.</p> <p>CR 15: Please elaborate further on the potential revenue stream based on production capacity, estimated demands and sales of the bricks in the region in quantitative terms, and how it will ensure the sustainability of the facility.</p> <p>CR 16: Please provide further information on the ownership of</p>	<p>CR 15: Cleared, page 12. The response clarifies the revenue stream of the VSBK.</p> <p>CR 16: Cleared, page 13 VSBK will be owned and operated by 200 out-of-school youths through an elected body, a Project Ownership Committee (POC).</p> <p>CR 17: Cleared, page 13 The project will be scaled up within two years in the neighboring district. The funding will come from the expected profits of this project.</p> <p>CR 18: Cleared, page 9. Through local purchase orders or service contracts, the NbS</p>

		<p>the facility and who will oversee the operation & maintenance of the VSBK facility.</p> <p>CR 17: Please provide plans for the scale-up of the VSBK facility.</p> <p>For the establishment of NbS, the activities are not sufficiently developed or explained to determine the sustainability or scale-up potential of the outcomes of the activities.</p> <p>CR 18: Please provide more details on how the application of the NbS, and market linkages will be sustained and scaled up after the project is completed.</p>	<p>will build its own revenue stream, which will ensure the economic sustainability of the activity.</p>
	<p>5. Does the project engage, empower and/or benefit the most vulnerable communities and social groups?</p>	<p>Not cleared.</p> <p>The direct beneficiaries of the project are community members and mainly the youth. However, the identification of the target beneficiaries is vague.</p> <p>CR 19: Please provide details of the direct target beneficiaries i.e., vulnerable groups disaggregated by gender, the number of youths disaggregated by gender, the selection process, and selection</p>	<p>CR 19: Cleared, page 8, 20</p> <p>All three components will target youth, with gender balance in consideration, as the main direct beneficiaries who will be selected based on criteria such as skills, attributes, knowledge, cultural fit, and qualifications.</p> <p>CR 20: Cleared.</p> <p>The project will target the same group of youth as the main beneficiaries.</p>

		<p>criteria or eligibility conditions of the youth and other vulnerable community groups etc.).</p> <p>All three components involve youth as the main participants.</p> <p>CR 20: Please clarify whether all three components are targeting the same group of individuals. The project aims to improve the capacity of poor women, youth, and people with disabilities by partnering with various stakeholders from the national government (MoWE, national forest authority) and the local stakeholders such as the district environment office, Iganga district commercial office, village, and sub-county leadership.</p> <p>CR 21: Please elaborate further on how the equitable participation of these different social groups is captured in the design of the project.</p>	<p>CR 21: Not cleared.</p> <p>Please clarify the affiliation of the office and the technical staff. (Is it the regional office of Struggle Against Poverty?)</p>
	6. Does the project advance gender equality and the empowerment of women and girls?	<p>Not cleared.</p> <p>The proposal mentions that a gender analysis supported by a</p>	<p>CR 22: Cleared, page 11</p> <p>The results of the gender analysis and a gender action plan are included in the proposal. Also, among 200</p>

		<p>gender action plan has been undertaken (page 9).</p> <p>CR 22: Please include the results of the gender analysis and provide a gender action plan in the proposal. Gender-specific targets and indicators should be included in the results framework.</p> <p>CR 23: Please provide an exact number of beneficiaries disaggregated by gender per component in PART III. C.</p>	<p>youths (direct beneficiaries), 60 women (30%) will participate in the project.</p> <p>CR 23: Cleared, page 20</p>
Resource Availability	1. Is the requested project funding within the parameters for small grants set by the Board?	Yes.	
	2. Is the Implementing Entity Management Fee at or below 8.5 per cent of the total project budget before the fee?	<p>No.</p> <p>The IE fee is 10.5% of the total budget before the fee.</p> <p>CAR 6: Please adjust the cost to below 8.5% of the total budget.</p>	<p>CAR 6: Cleared.</p> <p>The IE fee is 7.99% of the total budget before the fee.</p>
Implementation Arrangements	1. Is the project submitted through a National	Yes.	-

	Implementing Entity accredited by the Board?		
	2. Is the timeframe for the proposed activities adequate?	<p>Not cleared.</p> <p>The project duration is 15 months. However, without details of components 2 and 3, it is unclear at this point to determine whether the project duration is reasonable. CR24: Please clarify if the duration of 15 months is sufficient to complete the implementation of the proposed interventions.</p>	CR 24: Cleared.
	3. Is a summary breakdown of the budget for the proposed activities included?	<p>Not cleared.</p> <p>CAR 7: The project execution costs exceed 9.5% of the total budget requested before the implementing entity fees. Please revise.</p> <p>CR 25: Please provide budget details on activities 2.4 and 3.2.</p>	<p>CAR 7: Not cleared</p> <p>The project execution costs include staffing costs, project-related activity expenditures such as M&E costs, and costs related to drafting progress reports and financial reports. Currently, the project execution costs amount to 39,000 USD (16.8%) which exceeds 9.5% of the total budget requested before the implementing entity fees. Please revise.</p> <p>Also, please revise the project execution cost in the table on page 7 by including project staff salaries in the project execution</p>

			<p>cost. (Delete the budget line for the project staff salaries and merge it into the project execution cost) Please revise the same for table E on pages 24-26.</p> <p>CR 25: Cleared</p>
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ADAPTATION FUND

ADAPTATION FUND BOARD SECRETARIAT TECHNICAL REVIEW OF PROJECT/PROGRAMME PROPOSAL

PROJECT/PROGRAMME CATEGORY: Innovation Small Grant

Country/Region: UGANDA
Project Title: Climate Change Adaptation Through Operationalization of Vertical Shaft Brick Kiln Technology for Bricks Manufacturing and livelihood enhancement in Iganga District
Thematic Focal Area: Nature-based solutions, social innovation
Implementing Entity: Ministry of Water and Environment
AF Project ID:
IE Project ID: Requested Financing from Adaptation Fund (US Dollars): 250,000
Reviewer and contact person: Ry won Yang Co-reviewer(s): Alyssa Gomes
IE Contact Person:

Technical Summary:	<p>The project “Climate Change Adaptation Through Operationalization of Vertical Shaft Brick Klin Technology for Bricks Manufacturing and livelihood enhancement in Iganga District” aims to adapt to climate change through operationalizing the Vertical Shaft Brick Klin Technology for brick manufacturing and livelihood enhancement in Iganga district. This will be done through the three components below:</p> <p><u>Component 1:</u> Operationalization of a brick manufacturing technology that contributes to climate change adaptation (USD 95,000).</p> <p><u>Component 2:</u> Training and information sharing (USD 50,000).</p> <p><u>Component 3:</u> Establishment of nature-based solutions for improved community livelihoods (USD 47,500).</p> <p><u>Requested financing overview:</u></p> <p>Project/Programme Execution Cost: USD 33,750 39,000 Total Project/Programme Cost: USD 226,250 231,500 Implementing Fee: USD 23,750 18,500 Financing Requested: USD 250,000</p>
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	The initial technical review finds some issues, such as the lack of a climate change adaptation justification, climate change adaptation innovation rationale, a concise problem statement, and cohesion among components, as discussed in the number of Clarification Requests (CRs) and Corrective Action Requests (CARs) raised in the review.
Date:	3 January 2023

Review Criteria	Questions	Comments
Country Eligibility	1. Is the country party to the Kyoto Protocol?	Yes.
Project Eligibility	1. Has the designated government authority for the Adaptation Fund endorsed the project/programme?	Yes. The endorsement letter signed by the Minister of State of Ministry of Finance, Planning and Economic Development (MOFPED).
	2. Does the project / programme support concrete adaptation actions to assist the country in addressing adaptive capacity to the adverse effects of climate change and build in climate resilience? ¹	Not cleared. The proposed project is comprised of three components. The first is to introduce Vertical Shaft Brick technology (VSBK) to improve the traditional brick manufacturing process in the Iganga district, which causing degradation of the swamp ecosystem, deforestation, soil erosion, and pollution of rivers and lakes. At first sight, the technology, while it improves the energy efficiency of brick making, does not qualify as an adaptation solution since it does not address the adverse impacts of and risks posed by climate change. The main benefit of adopting this technology appears to be its GHG mitigation potential which is highly desirable, but insufficient for accessing funding from the Adaptation Fund.

¹ A concrete adaptation project/programme is defined as a set of activities aimed at addressing the adverse impacts of and risks posed by climate change. The activities shall aim at producing visible and tangible results on the ground by reducing vulnerability and increasing the adaptive capacity of human and natural systems to respond to the impacts of climate change, including climate variability. Adaptation projects/programmes can be implemented at the community, national, regional and transboundary level. Projects/programmes concern activities with a specific objective(s) and concrete outcome(s) and output(s) that are measurable, monitorable, and verifiable. (Source: Operational Policies and Guidelines, amended October 2017)

		<p>CR 1: Please provide the adaptation rationale of the proposed solution by clarifying how the VSBK addressing the impacts of climate change and what the adaptation benefits are, if there are any, especially in comparison to traditional practice.</p> <p>Response: <i>Climate affects a wide range of the environmental resources that are critical attractions for tourism, such as wildlife productivity and biodiversity, water levels and quality. Climate also has an important influence on environmental conditions that can affect livelihood, through infectious disease, wildfires, insect or water borne pests and extreme events such as floods or tropical storms. These environmental changes due to the impacts of climate change are heavily affecting majority of the country's population that rely on ecosystem goods and services for their livelihoods as it is the case for Iganga district. The major issues related to environmental changes include: - Wetland destruction and encroachment, prolonged droughts which are reportedly becoming severe due to climatic change effects, excessive deforestation, and forest degradation. These are associated with severe water scarcity, food insecurity, land degradation due to unsustainable brick making that employs traditional and rudimentary methods. The traditional brick making methods are characterised with unsustainable use of wetlands for clay and water, excessive deforestation and land degradation for fuel wood. Therefore, there is need to employ modern energy and resource saving technologies which are climate adaptive such as vertical shaft kiln technology. And employing adaptive capacity to the community as well as creating knowledge on alternative technologies and environmental protection, and alternative livelihood options.</i></p> <p>CAR 1: Please systematically list and describe project outputs and activities in the component's description in 'Project Justification' Section II.A.</p> <p>Response: <i>For the first component: 1. Operationalization of the vertical shaft brick kiln (VSBK) manufacturing technology that contributes to climate change adaptation</i> <i>The corresponding project component outputs are:</i> <ul style="list-style-type: none"> <i>▪ The vertical shaft brick kiln (VSBK) technology in place and operational.</i> <i>▪ Vertical shaft brick kiln (VSBK) technology construction and operation manual developed.</i> <i>▪ Regulation for vertical shaft brick kiln (VSBK) technology developed and adopted.</i> <i>The corresponding component activities are:</i> <i>1.1 Operationalize the VSBK technology by acquiring assorted Equipment and Machinery (3 Clay cutters, 3 clay carriers, 1 clay mixer, 1 clay compressor and 1 second hand clay transportation truck)</i></p>
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		<p>1.2 Development of VSBK technology training manual</p> <p>1.3 Training 200 youths who have dropped out of school and 50 key stakeholders (these include 10 Local Council staff, 5 sub-county chiefs, 20 teachers, 2 Commercial Officers, 2 Production Officers, 2 Agriculture Officers, 2 Community Development Officers, 2 Forest Officers, 3 Religious leaders, and 2 Environmental Officers) in VSBK technology construction and operations.</p> <p>1.4 Procure a piece of clay land deposits.</p> <p>1.5 Engage relevant sub-county and district leadership on formulation of by-law(s) on VSBK technology adaption.</p> <p>For the second component: 2. Developing, sharing information and training project beneficiaries on climate change adaptation best practices.</p> <p>The corresponding project component outputs are:</p> <ul style="list-style-type: none"> ▪ Knowledge management and information sharing system developed. ▪ A capacity building program for 200 youths who dropped out of school and 50 key stakeholders established. ▪ Information Education and Communication (IEC) materials on climate change adaptation developed, printed and disseminated. <p>The corresponding component activities are:</p> <p>2.1 Organize learning forums on climate change adaptation.</p> <p>2.2 Document lessons and good practices on climate change adaptation and disseminate for replication and up-scaling.</p> <p>2.3 Develop, print and disseminate various Information Education and Communication (IEC) materials (10,000 leaflets, 10,000 brochures 500 calendars, 500 T-shirts and 500 caps on climate change adaptation measures)</p> <p>For the third component: 3 -Promotion of nature-based solutions for alternative community livelihoods</p> <p>The corresponding project component outputs are:</p> <ul style="list-style-type: none"> ▪ Nature-based solutions (fish farming in pits left after the extraction of clay for brick making, wetlands, restorative agriculture in wetlands, afforestation by using trees as live markers on boundaries of wetlands, re-afforestation and commercial tree growing by replacing woodlots that were cut down to support brick making. Use of wetland vegetation like papyrus for crafts, mats and baskets to replace plastics, good agriculture methods like mulching to stop soil erosion, bee keeping, mushroom growing, plastics recycling and making briquettes from wastes) established. ▪ Market linkages in terms of local purchase orders and service contracts of products from nature-based solutions developed
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		<ul style="list-style-type: none"> ▪ <i>Business planning and business proposal development skills of 200 youths who have dropped of school and 50 key stakeholders enhanced.</i> <p>The corresponding component activities are:</p> <p>3.1 <i>Train 200 youths who have dropped out of school in 8 nature-based solutions (fish farming in pits after the extraction of clay for brick making in wetlands, restorative agriculture in wetlands, afforestation using trees as live markers on the boundaries of wetlands, re-afforestation and commercial tree growing replacing woodlots that were cut down to support brick making. Use of wetland vegetation like papyrus crafts, mats and baskets to replace plastics, good agriculture methods like mulching to stop soil erosion, bee keeping, mushroom growing, plastics recycling and making briquettes from wastes).</i></p> <p>3.2 <i>Procure various compound flower seedlings, wooden containers and watering cans to set up demonstration on conservation of wetlands, plantation establishment to support afforestation, long grass support mulching for good agriculture practices, obtain a grinder, washer and a drier to support plastic wastes recycling, wooden bee boxes for bee keeping, acquire Spawn, Filter patch bags, Steamer and Fumigation hood for mushroom growing, various tree seedlings for commercial tree growing and acquire local machine for briquettes production from wastes)</i></p> <p>3.3 <i>Facilitate the identification of market for products from the 8 nature-based solutions identified in above</i></p> <p>The proposed activity on VSBK aims to “operationalize” the United Nations Development Programme under the Global Environment Facility, small grants programme to establish a Demonstration on innovation of Energy Efficient Brick Kiln (Vertical Shaft Brick Kiln - VSBK) in Bubogo B Village, Namukusu Parish, Namung'alwe Sub-County, Iganga District</p> <p>The proposal states that due to the limited funding of the previous project (page 7), the VSBK facility is not operational.</p> <p>CR 2: Please provide more explanation on the exact output of the previous project supported by UNDP GEF SGP in 2018, the current status of the VSBK facility after the completion of the project, and the gap that the project is aiming to address.</p> <p>Response: <i>Struggle Against Poverty secured funding from The United Nations Development Programme under the Global Environment Facility, small grants programme to establish a structure to act as a Demonstration on innovation of Energy Efficient Brick Kiln (Vertical Shaft Brick Kiln - VSBK) in Bubogo B Village, Namukusu Parish, Namung'alwe Sub-County, Iganga District to mitigate environment damage arising from high energy, scattered, inefficient and one time-use brick Kilns. 200 school dropout youths are</i></p>
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		<p>18 to 25 years were sensitized and made aware of climate change and its effects, held dialogues with Igar district authorities on the need for systematic actions to involve youths and other relevant members of community to address climate change and to undertake sustainable livelihoods, 100 youths out of the 2 mobilized school drop outs, aged 18 to 25 years were trained in afforestation and planted at least 50 trees in their respective homesteads. However, the necessary equipment and machinery to operationalize VSBK technology was not achieved due to limited funding and thus the small grant request from Adaptation fund to establish the VSBK technology and develop a gender inclusive operation and maintenance manual.</p> <p>The proposal also explains that the required budget to erect one VSBK machinery is 35,000 USD (page 1). The requested budget in this proposal for assorted machinery is 61,000 USD.</p> <p>CR 3: Please explain further why assorted machinery costs more than the actual machine itself, and please provide the details of the budget item to support the reasoning.</p> <p>Response: <i>It is estimated that setting up a viable vertical shaft brick kiln structure without equipment and machinery costs about USD 35,000.</i></p> <p><i>And the details of the budget include:-</i></p> <p><i>Operationalize the VSBK technology by acquiring assorted Equipment and Machinery (3 Clay cutters, 2 clay carriers, 1 clay mixer, 1 clay compressor and 1 second hand clay transportation truck)</i></p> <p>The second component aims to develop knowledge management and information sharing systems, training of youth and key stakeholders. However, the direct beneficiary group is unclear. The number of youths participating in the exchange visit and learning forums (activities of component 2 is not unspecified, who would be selected as participants, would there be any criteria in the selection process, etc. Furthermore "key stakeholders" is also unclear. (For example, would they be the same key stakeholders targeted in component 1?)</p> <p>CR 4: Please explain further the objective of the second component, the selection criteria for youth and other stakeholder, and the expected output in a measurable term.</p> <p>Response:</p> <p>Component two objective</p> <p><i>Developing, sharing information and training project beneficiaries on climate change adaptation best practices.</i></p> <p>Selection Criteria</p>
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		<p>The selection of 200 school dropout youths aged 18 to 25 years and 50 key stakeholders (including 10 Local Council staff, 5 sub-county chiefs, 20 teachers, 2 Commercial Officers, 2 Production Officers, 2 Agriculture Officers, 2 Community Development Officers, 2 Forest Officers, 3 Religious leaders, and 2 Environmental Officers)) will follow a criteria that will consider skills, attributes, knowledge, cultural fit and qualifications</p> <p>Component two expected outputs</p> <ul style="list-style-type: none"> ▪ 10,000 leaflets, 10,000 brochures, 500 calendars, 500 T-shirts and 500 caps on climate change adaptation best practices printed and distributed. ▪ 1 documentary on climate change adaptation best practices developed. ▪ 4 Articles on climate change adaptation best practices. Published in the local newspaper ▪ 4 Radio talk shows on climate change adaptation best practices organized. ▪ 4 TV adverts on climate change adaptation best practices aired. ▪ 4 Social media adverts on climate change adaptation best practices organized. <p>CR 5: Please explain what “IEC” materials is and clarify who will develop the IEC materials and document on lessons and good practices.</p> <p>Response: IEC materials stand for: Information, Education and Communication materials. These include brochures, leaflets, banners, information briefs, calendars T-shirts and caps with climate change adaptation information, Presentations, radio talk shows, TV adverts, social media adverts and documentaries. The project staff will be developed by project staff, in consultation with the Ministry of Water and Environment. The project staff will take responsibility to inform, educate and communicate to the target groups about the VSS technology and climate change adaptation and monitor uptake of climate information. In addition, project staff will manage the process of documenting lessons learnt and best practices.</p> <p>CR 6: Please provide more information on the exchange visit of activity 2.1 – who will participate and expected outcome;</p> <p>Response: <i>This activity has been deleted.</i></p> <p>CAR 2: Please include result indicators and targets of the second component in the results framework (PART III. C).</p> <p>Response:</p> <ul style="list-style-type: none"> - Number of IEC materials developed and disseminated - Percentage of beneficiaries adopting climate change best practices.
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		<p>The third component is to roll out Nature-based Solutions (NbS) to improve community livelihoods. However, the climate change adaptation rationale for implementing NbS in the target areas is unclear.</p> <p>Response: <i>Nature based solutions such as fish farming in pits left after the extraction of clay for brick making in wetlands, restorative agriculture in wetlands, afforestation by using trees as live markers on boundaries of wetlands, re-afforestation and commercial tree growing by replacing woodlots that were down to support brick making. Use of wetland vegetation like papyrus for crafts, mats and baskets to replace plastics, good agriculture methods like mulching to stop soil erosion, bee keeping, mushroom growing, plastics recycling and making briquettes from wastes. These nature-based solutions will support climate change adaptation in Iganga district while at the same time improving incomes and livelihoods of communities.</i></p> <p>CR 7: Please explain further the climate risk and vulnerabilities that the target region is facing and how proposed eight (8) nature-based solutions will build resilience to these climate challenges.</p> <p>Response: <i>Iganga district in particular and the neighboring region has one of the fastest growing populations in Uganda. Pressure on land has driven communities to drain, exploit, destroy and damage the environment. Swamps are almost extinct, in the region. The result is negative to the environment. For example, youth now burn used tyre, cut all forms of wood and used oil to fire clay bricks as the only source of income that results into sizeable carbon emissions to the environment. Even the fact that land is randomly excavated to make bricks, which sites are not used multiple times, results into serious solid degradation. This is a major risk to the environment. In short, the 8 nature-based solutions seek to stop and reverse climate change manifestations in the area by: stopping land degradation, by reducing water loss, eliminating carbon emission, through creating sustainable livelihoods alternatives for communities, creating critical and action-oriented awareness of climate change risks, by advocating for legislation (by laws) to enforce all the above.</i></p> <p>CR 8: Once the climate rationale for pursuing NbS is established through CR7, please elaborate further on the objective and output of this component.</p> <p>Response:</p> <p>Component three objective</p> <p><i>Promotion of nature-based solutions for alternative community livelihoods</i></p> <p>Component three expected outputs</p> <ul style="list-style-type: none"> ▪ <i>Conservation of wetlands, fish farming in pits left after the extraction of clay for brick making in wetlands, afforestation, good agriculture practices, plastic wastes recycling, bee keeping, mushroom growing</i>
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		<p>growing, commercial tree growing, making briquettes as fuel from wastes and good agriculture practices identified as nature-based solutions and adopted by the youths as alternative livelihoods.</p> <ul style="list-style-type: none"> ▪ Skills developed in business planning and business proposal development on conservation wetlands, afforestation, good agriculture practices, plastic wastes recycling, bee keeping, mushroom growing, commercial tree growing, making briquettes as fuel from wastes and good agriculture practices enhanced. ▪ Gender mainstreamed amongst the youths while practicing nature-based solutions ▪ Local purchase orders and service contracts signed and running for nature-based solutions <p>It is unclear what 'market linkages, or 'adopting entrepreneur skills', means in the context of the project.</p> <p>CR 9: Please explain further what market linkages mean, and what means of verification would be applied.</p> <p>Response: <i>Market linkages means identification of individuals, companies and organizations willing to buy products from the 8 nature-based solutions. And the signed local purchase orders or service contracts that effect will be the means of verification.</i></p> <p>CR 10: Please explain further what 'adopting entrepreneur skills' would mean and how it will be measured. If necessary, please revise the indicator to a measurable, monitorable, and verifiable indicator. (development of business proposals, plans, or concepts)</p> <p>Response</p> <p><i>This has been revised to business planning and business proposal development.</i></p> <p>CAR 3: Please revise the results framework (PART III. C., pages 16-18), by separating the indicator from the target.</p> <p><i>This is revised as per attached revised project document</i></p> <p>CAR 4: Please revise the first indicator ("60% adopt VSBK technology for brick making") of Objective 1 clarifying the object of the %. (60% of what?)</p> <p><i>This is revised as per attached revised project document</i></p> <p>CAR 5: Once the results framework is revised as per CAR 3, please revise the project outcome indicator of the table in PART III. D (alignment with the Results Framework of the AF).</p> <p><i>This is revised as per attached revised project document</i></p>
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		<p>CR 11: Please clarify what the overall goal and objective of this project are and how the three components are linked with each other to achieve that goal.</p> <p>Response:</p> <p>Overall goal <i>Build community capacity to adopt energy efficient and climate resilient technology for manufacturing building bricks</i></p> <p>Project objectives</p> <ol style="list-style-type: none"> <i>1. Operationalization of the vertical shaft brick kiln (VSBK) manufacturing technology for climate change adaptation</i> <i>2. Developing, sharing information and training project beneficiaries on climate change adaptation best practices</i> <i>3. Promotion of nature-based solutions for alternative community livelihoods.</i> <p>How the three objective components are linked <i>Component two complements component one and three by contributing to climate change adaptation through improving awareness on the existing climate change adaptation measures.</i></p>
	<p>3. Does the project encourage or accelerate development of innovative adaptation practices, tools and technologies?</p>	<p>Not cleared.</p> <p>The proposal suggests that the VSBK has the potential to create a commercially viable revenue model through brick sales and eventually attract private funds for scale-up. However, the climate change adaptation innovation rationale of the proposed activity is unclear.</p> <p>CR 12: Please elaborate further on how the application of VSBK technology is a new, adapted or improved innovative adaptation solution.</p> <p>Response <i>VSBK is new to Uganda. Nowhere else has it been adapted at community level, to address climate change. It is an innovation in that, VSBK should not only be used at highly commercial levels, like big factories of clay products, it has been demonstrated in the Asian countries to thrive at small scale community producer level with huge benefits to climate change action by reducing carbon emission as compared to the current traditional and one time brick kilns.</i></p>

		<p>CR 13: Please clarify how communities most vulnerable to climate change in the target areas were involved in the decision to implement the proposed solution and how they will be involved moving forward in the implementation of proposed innovations.</p> <p>Response:</p> <p><i>This VSBK project started with two processes of community participation namely (a) participatory needs assessment for poverty eradication which was conducted in the project area and (b) baseline survey which refined the prioritized project needs at the start of the project. The communities will be part of the project implementation by being at the forefront by monitoring and evaluating the project affairs. This will be evidenced by the project ownership committee (POC) whose membership will be from the community.</i></p> <p>CR 14: Please include an explanation of what aspects of the activities of components 2 and 3 are innovative approaches, technologies, and/ or mechanisms.</p> <p>Response:</p> <p><i>The documentary under component two: This will be a reference for youths and other audience, with best practices on climate change adaptation and celebrating environmental values for environmental, social and economic development. It will be made available in English and Lusoga {Local} languages for distribution and promotion in Iganga district, with access for other districts on Struggle Against Poverty's website. Furthermore, the documentary on climate change best practices will be a lobby and advocacy tool for fundraising from other development partners which later sustainability will be achieved.</i></p> <p><i>Social media adverts under component two: The project team will work with multimedia experts to design a website dedicated to the action. The site will serve as a portal for highlighting and promoting project activities. Through this portion of the action, youths will post commentary and assignments including video, photos, and stories of their experiences and learning as they promote climate change adaptation measures.</i></p> <p><i>The nature-based solutions under component three: These various economic ventures are unique in that they are both environmentally friendly as well sources of incomes to the youths and hence, improved livelihoods</i></p>
	<p>4. Does the project help generate evidence base of effective, efficient adaptation practices, products</p>	<p>Not cleared.</p> <p>For the VSBK technology application, the proposal mentions that the project has the potential to be commercially viable. However, the cost-effectiveness and sustainability of the intervention are not sufficiently explained.</p>

or technologies, as a basis for potential scaling up?

CR 15: Please elaborate further on the potential revenue stream based on production capacity, estimated demands and sales of the bricks in the region in quantitative terms, and how it will ensure the sustainability of the facility.

Response

The revenue stream will include on demand payment, discounts, research, product diversification and advertisements. Additionally, the manufacture of durable bricks by VSBK innovation will be our comparative advantage compared to the current weak bricks that are manufactured today using the traditional methods. Our customers will be individuals and companies that will be building at any time and we shall be opening up outlets for growth. We shall be selling good quality building bricks as our product to customers in exchange for up-front payments. On average 50,000 building bricks in a week will be sold with costs and profits as per this breakdown: -

<i>Weekly Number of Building Bricks</i>	<i>50,000</i>
<i>Unit costs of a building brick for Materials and Labour</i>	<i>USD. 0.05</i>
<i>Unit selling price for a building brick</i>	<i>USD. 0.062</i>
<i>Gross profit</i>	<i>USD. 3,100</i>
<i>Estimated weekly consolidated operating costs</i>	<i>USD. 1,000</i>
<i>Profit before Tax</i>	<i>USD. 2,100</i>
<i>18% Value Added Tax (VAT)</i>	<i>USD. 378</i>
<i>A net weekly profit of</i>	<i>USD. 1,722</i>

From the above while using the traditional methods, 50,000 bricks will be obtained after 6 months or so in addition to using of huge tons of tree cuttings, grass, water, a lot of man power and with a lot of emissions which emissions are dangerous to human health as compared to the VSBK innovation.

CR 16: Please provide further information on the ownership of the facility and who will oversee the operation & maintenance of the VSBK facility.

Response

		<p><i>The project will be owned by school dropout youths from the target 9 pilot villages of Bubogo B, Walugogo, Nabikoote, Namufuma, Kawete, Nabitende, Nasunti, Nambale, and Namusala, Iganga District. The 200 out of school youths both female and male will be facilitated by struggle against poverty to organise an annual general meeting to elect a project ownership committee (POC). All the out of school 200 youths will have voting rights and rights to be voted for. This project ownership committee (POC) will comprise of 10 members that is to say 6 males and 4 females in addition to the secretary general of struggle against poverty who will be an ex-official. The project ownership committee (POC) will hold office for one year but will be meeting quarterly to review and evaluate the operations of the project.</i></p> <p>CR 17: Please provide plans for the scale-up of the VSBK facility.</p> <p>Response:</p> <p><i>The initial 200 out of school youths who will be trained will lead to cost effectiveness in that they will be trainer of trainers as we shall be scaling up to other locations in Iganga district in addition to the advantage of having good clay within the communities and the required equipment and machinery which can be obtained locally in Uganda. The VSBK scale – up will involve establishing another VSBK in another district within two years to cater for the expanding product needs. And one of the roles of the committee will be ensure that the existing project save funds enough for the scale-up initiatives.</i></p> <p>For the establishment of NbS, the activities are not sufficiently developed or explained to determine the sustainability or scale-up potential of the outcomes of the activities.</p> <p>CR 18: Please provide more details on how the application of the NbS, and market linkages will be sustained and scaled up after the project is completed.</p> <p>Response</p> <p><i>This component will be sustained on customer and producer relationship which will be formalized and through written local purchase orders or service contracts whose proceeds will be reinvested for continuity.</i></p>
	<p>5. Does the project engage, empower and/or benefit the most vulnerable</p>	<p>Not cleared.</p> <p>The direct beneficiaries of the project are community members and mainly the youth. However, the identification of the target beneficiaries is vague.</p>

	<p>communities and social groups?</p>	<p>CR 19: Please provide details of the direct target beneficiaries i.e., vulnerable groups disaggregated by gender, the number of youths disaggregated by gender, the selection process, and selection criteria or eligibility conditions of the youth and other vulnerable community groups etc.).</p> <p>Response:</p> <p>Direct target beneficiaries</p> <p><i>These will be 200 out of school youths both males (60%) and female (30%) of 18 to 25 years</i></p> <p>Selection criteria</p> <p><i>The selection of 200 out of school youths will follow the criteria that will consider skills, attributes, knowledge, cultural fit and qualifications.</i></p> <p>All three components involve youth as the main participants.</p> <p>CR 20: Please clarify whether all three components are targeting the same group of individuals.</p> <p>The project aims to improve the capacity of poor women, youth, and people with disabilities by partnering with various stakeholders from the national government (MoWE, national forest authority) and the local stakeholders such as the district environment office, Iganga district commercial office, village, and sub-county leadership.</p> <p><i>All the three components will target the same group of beneficiaries</i></p> <p>CR 21: Please elaborate further on how the equitable participation of these different social groups is captured in the design of the project.</p> <p>Response</p> <p><i>Equity in participation among the stakeholders will involve out of school youths both sex of 18 to 25 years as the direct beneficiaries and technical staff responsible for environment, forestry, water, and fisheries each present two persons to benefit from the project activities in terms of training and meetings. The rationale behind two participants from each relevant office is to ensure participation from the said office all times. The temporary absence from one person from a target office should not disadvantage its continued and equitable participation</i></p>
	<p>6. Does the project advance gender equality and the empowerment of women and girls?</p>	<p>Not cleared.</p> <p>The proposal mentions that a gender analysis supported by a gender action plan has been undertaken (page 9).</p>

		<p>CR 22: Please include the results of the gender analysis and provide a gender action plan in the proposal. Gender-specific targets and indicators should be included in the results framework.</p> <p>Response</p> <table><tr><th>Results</th><th>Gender Action Plan</th></tr><tr><td>None involvement of women in development programs</td><td>In all forms of trainings, the involvement of both females and males will be paramount. Factors that impede on their participation during training will be eliminated.</td></tr><tr><td>Society has traditionally assigned manual labor and engineering work to boys and men only</td><td>This project will deliberately seek both female and male to take up such roles. In this way, the men might feel that they stand to lose but this will be discussed and clarified accordingly.</td></tr><tr><td>Low participation of girls in Marketing roles, income activities and asset ownership</td><td>This project shall as well empower females to participate actively in marketing their own bricks and nature-based solution products to determine how the accrued income is utilized. This will be done through trainings attended by both the female and male direct beneficiaries of this project.</td></tr></table>	Results	Gender Action Plan	None involvement of women in development programs	In all forms of trainings, the involvement of both females and males will be paramount. Factors that impede on their participation during training will be eliminated.	Society has traditionally assigned manual labor and engineering work to boys and men only	This project will deliberately seek both female and male to take up such roles. In this way, the men might feel that they stand to lose but this will be discussed and clarified accordingly.	Low participation of girls in Marketing roles, income activities and asset ownership	This project shall as well empower females to participate actively in marketing their own bricks and nature-based solution products to determine how the accrued income is utilized. This will be done through trainings attended by both the female and male direct beneficiaries of this project.
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None involvement of women in development programs	In all forms of trainings, the involvement of both females and males will be paramount. Factors that impede on their participation during training will be eliminated.									
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Low participation of girls in Marketing roles, income activities and asset ownership	This project shall as well empower females to participate actively in marketing their own bricks and nature-based solution products to determine how the accrued income is utilized. This will be done through trainings attended by both the female and male direct beneficiaries of this project.									
		<p>CR 23: Please provide an exact number of beneficiaries disaggregated by gender per component in PA III. C.</p>								
Resource Availability	1. Is the requested project funding within the parameters for small grants set by the Board?	Yes.								
	2. Is the Implementing Entity Management Fee at or below 8.5 per cent of the total project budget before the fee?	No. The IE fee is 10.5% of the total budget before the fee. CAR 6: Please adjust the cost to below 8.5% of the total budget. <i>This is revised as per the revised project document</i>								
Implementation Arrangements	1. Is the project submitted through a	Yes.								

	National Implementing Entity accredited by the Board?	
	2. Is the timeframe for the proposed activities adequate?	<p>Not cleared.</p> <p>The project duration is 15 months. However, without details of components 2 and 3, it is unclear at this point to determine whether the project duration is reasonable.</p> <p>CR24: Please clarify if the duration of 15 months is sufficient to complete implementation of proposed interventions.</p> <p>Response: <i>With the observations and appropriate revisions, 15 months are sufficient to complete the project</i></p>
	3. Is a summary breakdown of the budget for the proposed activities included?	<p>Not cleared.</p> <p>CAR 7: The project execution costs exceed 9.5% of the total budget requested before the implementing entity fees. Please revise.</p> <p>Response: <i>This is revised as per the revised project document</i></p> <p>CR 25: Please provide budget details on activities 2.4</p> <p>Response <i>Develop, print and disseminate various IEC materials like 10,000 leaflets, 10,000 brochures 500 calendars, 500 T-shirts and 500 caps on climate change adaptation measures</i></p> <p>and 3.2. <i>Procure various compound flower seedlings, wooden containers and watering cans to set up a demonstration on conservation of wetlands, tree seedlings for demonstration on afforestation, long grass to demonstrate mulching for good agriculture practices, obtain a grinder, washer and a drier to demonstrate on plastic wastes recycling, wooden bee boxes for bee keeping, acquire Spawn, Filter paper bags, Steamer and Flow hood for mushroom growing, various tree seedlings for commercial tree growing and acquire local made machine for briquettes production from wastes)</i></p>

December 2018



ADAPTATION FUND

PROGRAMME ON INNOVATION: SMALL GRANTS PROJECTS THROUGH DIRECT ACCESS MODALITY

REQUEST FOR PROJECT FUNDING FROM THE ADAPTATION FUND

The annexed form should be completed and transmitted to the Adaptation Fund Board Secretariat by email or fax.

Please type in the responses using the template provided. The instructions attached to the form provide guidance to filling out the template.

Please note that a project must be fully prepared when the request is submitted.

Complete documentation should be sent to:

The Adaptation Fund Board Secretariat
1818 H Street NW
MSN P4-400
Washington, D.C., 20433
U.S.A
Fax: +1 (202) 522-3240/5
Email: afbsec@adaptation-fund.org



ADAPTATION FUND

PROGRAMME ON INNOVATION: SMALL GRANT PROJECT PROPOSAL

PART I: PROJECT INFORMATION

Country:	Uganda
Title of Project:	Climate Change Adaptation Through Operationalization of Vertical Shaft Brick Kiln Technology for Bricks Manufacturing and livelihood enhancement in Iganga District
National Implementing Entity:	Ministry of Water and Environment
Executing Entity:	Struggle Against Poverty
Amount of Financing Requested:	250,000 (in U.S Dollars Equivalent)

1. Project Background and Context:

1.1 Background

The 2016/17 Uganda National Household Survey data indicated that 74.8 per cent of people in Busoga Sub-region where Iganga district belong were considered poor and insecure against a national average of 63 per cent. The district lacks viable economic activities as compared to districts in other regions of the Country. This prevailing situation has encouraged majority of the people of Iganga district in particular to depend on natural resources to meet their basic needs. The insurgency in northern Uganda between 1990 and early 2000, caused an influx of internally displaced persons (IDPs) from northern Uganda to Iganga district. The IDPs settled in Iganga town, in the peri-urban areas and in the villages. Many of these IDPs have not gone back but have been integrated into the communities.

Despite the integration of IDPs with the communities in Iganga district and Busoga region as a whole, many are faced with livelihood challenges, such as lack of ownership of farm-land. The result is that they have resorted to swamp reclamation for rice growing, bricks making and selling unskilled labour. These environmental degrading activities deepen the adverse effects of climate change in the district and Uganda as a whole.

Traditional methods of brick making such as the "one- time use" brick kilns for burning of the building-bricks, has damaged and continues to damage the environment by producing gross carbon emissions, claiming arable and fertile soils, and encouraging frequent cutting of grass and trees. It is against this back ground that the Struggle Against Poverty programme is seeking for financial support to adapt to climate change through operationalizing of the vertical Shaft technology for brick manufacturing and livelihood enhancement in Iganga district.

Obviously, in a natural resource heavily dependent community economy like Uganda is currently, there can be no better way to address impact of natural change than to among others"
(a) restore the natural environment and its ability to regenerate itself in the shortest time possible. Attendant to this, is the benefit of VSBK to create resilient communities by enabling all but not only a few to derive benefits from and of regenerated

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environments. For example, community water bodies, wetlands, swamps and others will not be used by a few people but by entire communities. The project will restore forests, swamps, wetlands, will regenerated degraded and wasted arable land.

(b) By reducing likelihood of climate disasters and risks. When land and its contents are degenerated, there is a risk of, for example, floods, droughts, destructive stand storms and many more. This project reduces the likelihood of such disasters to occur, and readies stakeholders to act fast when and where they occur.

(c) Through creating climate-smart jobs. VBSK addresses climate change by deliberately working on community poverty and inequality. In so doing, VSBL liberates and restores land upon which we train communities to carry out climate farming, upon which we empower communities to conserve their use of water

The general overview of the three (3) project components is insufficient to clarify the scope and rationale for the proposed interventions.

(d) To advocate for wider and greater participation in climate action. The desired target is to limit global warming to 1.50C. This is a very big undertaking for a few to do. It requires action from communities, local leaders, public authorities, civil society, the exploitative private sector and many others. Through advocacy campaigns around VSBK project, we will mobilize critical action to scale up ecosystem restoration and mitigate climate change.

(e) By reducing our own climate impact. This is our own way to reduce out carbon and environmental imprint.

(f) By encouraging the participation of youth. Africa has got a very young population, mainly youth. These are the most energetic in society who have to find meaning in life and sustainable means of livelihoods which the VSBK project proposes.

Iganga district in particular and the neighbouring region has one of the fastest growing populations in Uganda. Pressure on land has driven communities to drain, exploit, destroy and damage their environment. Swamps are almost extinct, in the region. The result is negative to the environment. How? For example, youth now burn used tyres and used oil to fire clay bricks results into sizeable carbon emissions to the environment. Even the fact that land is randomly excavated to make bricks, which sites are not used multiple times, results into serious solid degradation. This is a major risk to the environment. In short, the 8 nature-based solutions seek to stop and reverse climate change manifestations in the area by: stopping land degradation, by reducing water loss, by eliminating carbon emission, through creating sustainable livelihoods alternatives for communities, by creating critical and action-oriented awareness of climate change risks, by advocating for legislation (bye-laws) to enforce all the above.

1.2 Project context

1.2.1 Climate Change context

Uganda lies within a relatively humid equatorial climate zone, but the topography, prevailing winds and water bodies cause large differences in rainfall patterns across the country.

Uganda is ranked among the countries the most vulnerable countries to climate change, with low levels of human development and an index of 0.544 ranked as 159 out of 189 countries on the Human Development Index.

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~~The observed annual rainfall totals vary from 500 mm to 2800 mm. Uganda repeatedly experiences extreme climate-related events in form of droughts and floods and associated natural disasters. With the country heavily reliant on natural resources, the level of vulnerability is therefore quite high, especially from the effects of climate change¹. The average annual rainfall ranges from 800 mm to 1500 mm¹, and average daily temperature is around 28 °C, but varies with altitude¹.~~ The country is also endowed with significant portions of the world's most spectacular biodiversity and rich natural resource base, which deliver numerous ecosystem goods and services that are shared by millions of people across the country. With a total land area of 241,038km², about 30% of Uganda's land is suitable for agriculture.

Uganda's economy, therefore, fundamentally depends on the careful management of a delicate balance between safeguarding the integrity of the environment and natural resource base and meeting the increasing economic needs of land users particularly the rural vulnerable poor. Striking this balance amidst a changing climate coupled with other stresses such as the increasing human population and a multitude of anthropogenic pressures presents an enormous challenge that undermines and threatens their capacity to provide ecosystem goods and services for local communities.

~~Currently, Uganda experiences significant impacts of climate change manifested in form of changing weather patterns, drop in water levels, increased frequency of extreme weather events such as floods, and droughts, whose social-economic impacts render communities highly vulnerable². Uganda's second national Communication 2014 presents IPCC models and Representative Concentration Pathways (RCPs) 4.5 and 8.5 that reveal temperature rises in all the Climatologically Homogenous Zones (CH) of Uganda³.~~

~~According to Uganda's Third National Communication, Mean annual Temperature projections at climate level (2031-2060) show projected temperature increases of 1 to 1.5oC under RCP 2.6 and RCP 4.5 for most parts of the country while RCP 8.5 projects an increase in temperature of 1.5 to 2.5°C relate to the 1981-2010 average. On the other hand, under RCP 8.5 mean annual rainfall in the 2031-2060 period is expected to decrease by 5 to 15% in most parts of centraleastern Uganda where Iganga district lies.~~

Iganga district is the largest of the three Districts that were formed out of the former Busoga District in 1974. It is situated in south-eastern Uganda and lies between latitudes 10 00' S - 10 06' N and longitudes 330 57' E 330 12' E. It borders with the Republic of Kenya on the eastern side (in Lake Victoria), the Republic of Tanzania on the south (in Lake Victoria), the districts of Mukono and Jinja on the west, Kamuli on the north and Tororo and Pallisa on the north-east.

The district covers an area of 13,114 Km² out of which 4,823 Km² is land and the rest is swamp and open water with a total population of 506,388 people during the 2014 Population and Housing Census. Iganga district has many forest reserves/plantations under well specified regulations. There are 22 plantation forests which provide fuel/poles and soft wood

¹ Uganda's TNC, 2022 <https://unfccc.int/sites/default/files/resource/Final%20TNC%20Uganda.pdf>

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timber. Tree plantations cover an area of 4.3 Km² broad leafed 2.9 Km² and conifers 1.4 Km². Under natural forests, Tropical high forests cover 193.5 Km² but out of which 160.7 Km² is degraded. Today, swamps in most parts of Iganga district have been drained dry according to National Planning Authority of Uganda. Mass swamp reclamation for alternative sources of income such as rice and vegetable cultivation as well as hunting of clay for brick making for sale has greatly destroyed the swamp ecosystems in Iganga district. Worst still, these one-time-use energy inefficient brick kilns used to burn building bricks for sale, produce a lot of emissions that are dangerous to the environment. The process involves the use of too much firewood that has increased deforestation resulting into soil erosion, pollution of swamps, rivers and lakes.

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1.2.2 Social-Economic Context.

Uganda faces several developmental constraints, including high population growth of 3.3% p.a), post-conflict conditions in the north, soil erosion and degradation, among others. The increase in the population and upcoming developments is triggering pressure on natural resources reflected in deforestation and ecosystems degradation such as degradation of wetlands for rice cultivation, brick manufacturing, food and water. With a young population, pressure on water and related resources is likely to escalate. The effects of agricultural expansion coupled with intensive land fragmentation, unsustainable crop farming practices, overexploitation practices, overexploitation of natural resources in Iganga district, has led to: i) excessive abuse of wetlands for bricks manufacturing ii) increased competition and costs for resources and land; and ii) use of traditional, inefficient and one time-use brick kilns for bricks burning which has side effects of increased carbon emissions. This climate change adaptation through operationalization of Vertical Shaft Brick Kiln technology for bricks manufacturing and livelihood enhancement in Iganga District fits within the scope and aspirations of Uganda's Vision 2040, NDP-II and NDPIII and the Climate Change Policy, 2015. The country aspirations enshrined in such policy and planning frameworks focus among others on reducing the degradation of environment and natural resources and ensuring improved ecosystem services delivery as means of enhancing the resilience of vulnerable populations especially the youths. Globally, the project contributes to attainment of the Sustainable Development Goals (SDGs), specifically SDG 1, 13, 15 and 17 that aim at eliminating poverty, climate action life and land, and promoting partnerships for developing the knowledge base, and effective capacity development.

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1.2.3 Environment Context.

It is estimated that 97% of Uganda's land area is suffering from some form of human-induced land degradation. The key problems include soil erosion and declining soil fertility, deforestation, pollution of land, water and air resources, loss of biodiversity and over-harvesting of forests, fisheries and water resources.

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Climate affects a wide range of the environmental resources that are critical attractions for tourism, -such as wildlife productivity and biodiversity, water levels and quality. Climate also has an important influence on environmental conditions that can affect livelihood, through

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infectious disease, wildfires, insect or water-borne pests and extreme events such as floods or tropical storms.

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These environmental changes due to the impacts of climate change are influencing heavily on heavily affecting majority of the country's population the people who that rely on ecosystem goods and services for their livelihoods as it is the case for Iganga district. The major issues related to environmental changes in Iganga district include:- include:- Wetland reclamation destruction and encroachment encroachment, prolonged droughts which are reportedly becoming severe due to climatic change effects, excessive deforestation, and forest degradation. These are associated with severe water scarcity, food insecurity, land degradation due to unsustainable brick making that employs traditional and rudimental methods. The traditional brick making methods are characterised with unsustainable use of wetlands for clay and water, excessive deforestation and degradation for fuel wood. Therefore, there is need to employ modern energy and resource saving technologies which are climate adaptive such as vertical shaft kiln technology.

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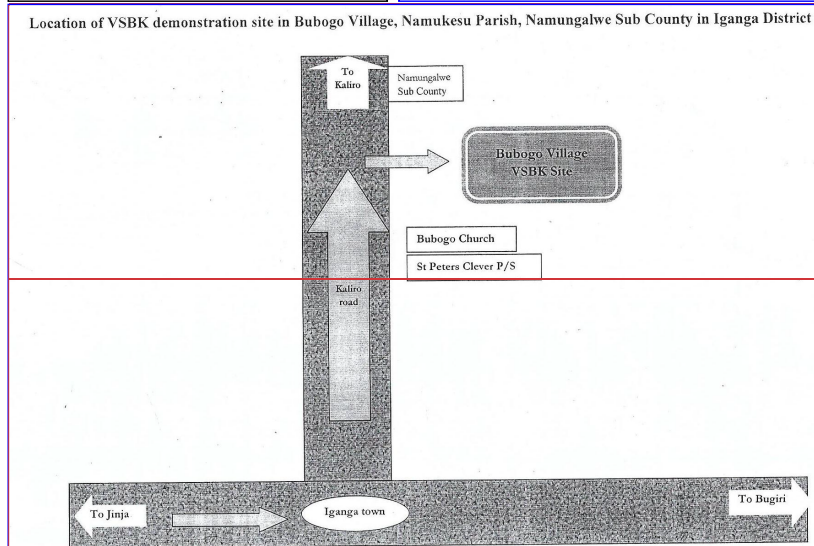
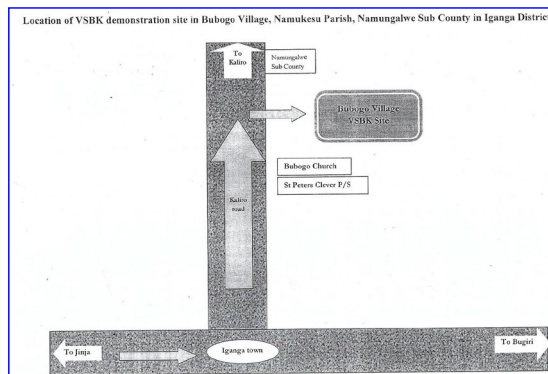
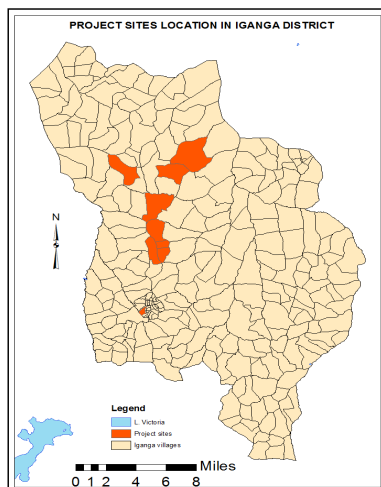
soil erosion, water stress, reduced pastures and overgrazing, school drop-outs dropouts, wetland encroachment and wildfires. Unfortunately, the adaptation capacity of the community even when faced with such climate change related risks and disasters, the climate change adaptation capacity of most vulnerable community members among grass root communities remains extremely limited due to inadequate interventional resources, limited knowledge on alternative technologies and environmental protection, and from Government and development partners as well as limited livelihood options at grass root level.

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1.3 Project Site

The project will target 9 pilot villages of Bubogo B, Walugogo, Nabikoote, Namufuma, Kawete, Nabitende, Nasunti, Nambale, and Namusala respectively. The vertical shaft brick kiln technology will be operationalized as a demonstration site along Kaliro road, 5 kilometers from Iganga town in Bubogo B village, Namukesu parish, Namungalwe sub-county Kigulu north constituency while the other nature-based solutions will be located in other villages listed above of Iganga district, Uganda.

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2. Project Objectives:

List the main objectives of the project.

The project goal is to

- ~~To build community capacity~~ ~~ies~~ ~~to adopt~~ ~~adopt~~ energy efficient and climate resilient and carbon emission free technology for manufacturing of building bricks.
- ~~To promote nature based solutions for improved community livelihoods.~~

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2.1 Specific Objectives

- ~~To operationalize the vertical shaft brick kiln (VSBK) manufacturing technology on for climate change adaptation by June October 20235.~~
- To develop, share information and train project beneficiaries on climate change adaptation best practices ~~by October June 2023202 5.~~
- ~~To introduce nature-based solutions for improved community livelihoods by October June 20232025~~
- ~~To promote nature-b-based solutions for alternative community livelihoods~~

2.2 Project Components and Financing:

Fill in the table presenting the relationships among project components, activities, expected concrete outputs, and the corresponding budgets. If necessary, please refer to the INSTRUCTIONS FOR PREPARING A REQUEST FOR PROGRAMME ON INNOVATION: SMALL GRANTS PROJECTS THROUGH DIRECT ACCESS for a detailed description of each term.

The project is composed of three components namely:

1. Operationalization of the vertical shaft brick kiln (VSBK) manufacturing technology for climate change adaptation.
 2. Developing, sharing information and training project beneficiaries on climate change adaptation best practices.
 3. Promotion of nature-based solutions for alternative community livelihoods
- ~~Operationalization of a vertical shaft brick kiln (VSBK) manufacturing technology that contributes to climate change adaptation.~~
- ~~Develop, share information and train project beneficiaries on climate change adaptation best practices.~~
- ~~Promote nature based solutions for alternative community livelihoods.~~

Project Components	Expected Concrete Outputs	Expected Outcomes	Amount (US\$)
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1. <u>Operationalization of the vertical shaft brick kiln (VSBK) manufacturing technology that contributes to climate change adaptation.</u> <u>Operationalization of a brick manufacturing technology that contributes to climate change adaptation.</u>	1.1 <u>The</u> vertical shaft brick kiln (VSBK-) technology <u>in place and</u> operational. 1.2 Vertical shaft brick kiln (VSBK-) technology construction and operation manual developed. 1.3 Regulation for vertical shaft brick kiln (VSBK) technology developed and adopted.	1.1 <u>Reduction of greenhouse gas emissions from the current traditional, energy inefficient and one-time-use brick kilns</u> 1.2 increased employment among the youths <u>in</u> Iganga	95,000
2. <u>Developing, sharing information and training project beneficiaries on climate change adaptation best practices.</u> <u>Training and information sharing</u>	2.1 Knowledge management and information sharing system developed. 2.2 Capacity building program <u>for 200 youths and 50 key stakeholders established.</u> 2.3 <u>Information Education and Communication (IEC)</u> materials on climate change adaptation developed, printed and disseminated.	2.1 Lessons and good practices shared and adopted.	50,000

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<p>3. <u>Promotion of nature-based solutions for alternative community livelihoods</u></p> <p><u>To promote nature based solutions for alternative community livelihoods</u></p> <p><u>Establishment of nature-based solutions for improved community livelihoods</u></p>	<p>3.1 Nature-based solutions (conservation of wetlands, afforestation, good agriculture practices, plastic wastes recycling, bee keeping, mushroom growing, commercial tree growing and making briquettes as fuel from wastes) established</p> <p>3.2 Market linkages in terms of local purchase orders and service contracts of products from nature-based solutions developed</p> <p>3.3 <u>Entrepreneur Business planning and business proposal development</u> skills of youths and key stakeholders enhanced</p>	<p>3.1 Enhanced ecosystem health</p>	<p>47,500</p>
Project staff salaries	Secretary General, Monitoring & Evaluation Officer and Accountant recruited for 12 months	Committed and qualified project Staff	30,000
Project Execution cost			222,500
Project Monitoring and Evaluation, <u>Auditing, communication, rent & other operational costs</u>			<u>3,759,000</u>
Project Cycle Management Fee charged by the Implementing Entity (if applicable)			<u>23,718,500</u>
Amount of Financing Requested			250,000

3.0 Projected Calendar:

Indicate the dates of the following milestones for the proposed project/programme

Milestones	Expected Dates
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A Notification of Project Start	September-June 01, 2023 ²
A Project Monitoring Report 1	March-December 30 ³¹ , 2023
A project Monitoring Report 2	September-June 30, 2023 ²⁰²⁴
A Notification of Project Completion	December 31, 2023 ²⁰²⁴
A Project Completion Report	June 30, 2024 ²⁰²⁵

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PART II: PROJECT JUSTIFICATION ²

A. Describe the project components, particularly focusing on the concrete adaptation activities of the project, and how these activities contribute to climate resilience.

Component one: In 2018, Struggle Against Poverty secured funding from The United Nations Development Programme under the Global Environment Facility, small grants programme to establish a structure to act as a Demonstration on innovation of Energy Efficient Brick Kiln (Vertical Shaft Brick Kiln - VSBK) in Bubogo B Village, Namukusu Parish, Namung'alwe Sub-County, Iganga District to mitigate environment damage arising from high energy, scattered, inefficient and one time-use brick Kilns which was done, mobilized 200 out of school youths of 18 to 25 years to be very aware of and commit to address climate change, dialogued and alerted Iganga district authorities on the need for systematic actions to involve youths and other relevant members of the community to address climate change and to undertake sustainable livelihoods, 100 youths out of the the 200 mobilized out of school youths of 18 to 25 years who were trained in afforestation planted at least 50 trees in their respective homesteads. ~~This was done successfully~~ However, the necessary equipment and machinery to ~~operationalization~~ operationalize was not achieved due to limited funding and this is one of the reasons for this proposal. the technology is not yet acquisitioned, policy leaders and women participation was low, guidance in terms of a manual for the technology operations and maintenance was not developed and dependence on brick-making is the main activity without alternatives.

Therefore, operationalizing this innovation will contribute to climate change adaptation by strengthening the capacity of 200 youths both male and female of 18 to 25 years and key 50 relevant stakeholders who will be selected following a criteria that will consider skills, attributes, knowledge, cultural fit and qualifications to adapt and use the vertical shaft brick kiln technology that is emission free. The 50 key stakeholders will include: grass-root brick makers, brick dealers (middle men), brick transporters, village local council leaders, sub-county leaders and environment committees, district environment officer as well as district NGOs monitoring team members and related private sector. Equity in participation among the stakeholders will involve out of school youths, both sex of 18 to 25 years as the direct beneficiaries and technical staff responsible for environment, forestry, water, and fisheries will each present two persons to benefit from the project activities in terms of training and meetings. The rationale behind two participants from each relevant office is to ensure participation from the said office at all times. The temporary absence from one person from a target office should not disadvantage its continued and equitable participation.

Climate resilience will be achieved through; acquiring assorted equipment and machinery to ~~complete and~~ operationalize the vertical shaft brick kiln technology, developing the vertical shaft brick kiln technology construction and operation manual, getting and adapting a regulation on

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² Parts II and III should jointly not exceed 10 pages.

vertical shaft brick kiln technology from Iganga sub-county and district council leadership.

VSBK is new to Uganda. No where else has it been adapted at community level, to address climate change. It is an innovation in that, VSBK should not only be used at highly commercial levels, like big factories of clay products, it has been demonstrated in the Asian countries to thrive at small scale community producer level with huge benefits to climate change action by reducing carbon emission. This VSBK project started with two processes of community participation namely (a) participatory needs assessment for poverty eradication which was conducted in the project area and (b) baseline survey which refined the prioritized project needs at the start of the project. This component will contribute to climate change adaptation with a mitigation co-benefit by saving the cutting of various tree species and reducing greenhouse gas emissions that are currently generated by the traditional, energy inefficient and one time use brick kilns used by the youths today.

This component will also, the component will help the country to achieve the NDC as a result of promoting some of the prioritized adaptation actions and mitigation measures through the use of brick kilns and ensuring energy efficiency.

Component two: Skilling and information sharing is expected to be achieved through developing knowledge management and information sharing systems and training of the same 2400 out of school youths and 50 key stakeholders of component one in information management and sharing, and developing, printing and disseminating of information education and communication materials like brochures, leaflets, banners, information briefs, calendars T-shirts and caps with climate change adaptation information, Presentations, radio talk shows, TV adverts, and social media adverts, among others leaflets, brochures, calendars, T-shirts and caps with climate change adaptation information which will be developed in consultation with the Ministry of Water and Environment. The project staff will take responsibility to spread them to the target groups and monitor their uptake. In addition, also, the project staff will manage the process of documenting lessons learnt and best practices. This component complements component one and three by will contribute contributing to climate change adaptation by improving awareness on the existing climate change adaptation measures ~~measures~~.

Component three: Establishment of nature-based solutions for improved community livelihoods which will be achieved through establishment of nature-based solutions for improved community livelihoods, conducting Market linkages of products from nature-based solutions developed through customer and producer relationship which will be formalized and sustainable through written local purchase orders or service contracts. And training of the same 200 out of school youths and 50 key stakeholders in entrepreneur-business planning and business proposal skills on nature-based solutions like conservation of wetlands, afforestation, good agriculture agro-ecological practices, plastic wastes recycling, bee keeping, mushroom growing, commercial tree growing, making briquettes as fuel from wastes. This component will contribute to climate change by having a prevailing healthy ecosystem. Additionally, all the components target youth in the skills provision, systematically documenting and sharing lessons learnt and best practices as well the use of nature based solutions in a manner that does not destroy the environment but instead restore the use of and resilience of

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natural resources such as water, swamps, land, forests and fisheries. Hence, feeding in one another.

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- B. Describe how the project provides economic, social and environmental benefits, with particular reference to the most vulnerable communities, and vulnerable groups within communities, including gender considerations. Describe how the project will avoid or mitigate negative impacts, in line with the Environmental and Social Policy of the Adaptation Fund.**

Economically: From the layout of the project, it will provide economic benefits by directly contributing to improving the alternative livelihoods and incomes of the community members. This is possible especially considering the key interventions like establishing nature-based solutions such as conservation of wetlands, afforestation, good agriculture practices, plastic wastes recycling, bee keeping, mushroom growing, commercial tree growing, making briquettes as fuel from wastes and trainings are expected to engage the youths in such alternative livelihood options which will increase incomes that will be utilized to enhance production at household and community levels in addition to the operation of the vertical shaft brick kiln technology which will be manufacturing building bricks for sale a practice that is commercial in nature as well.

Socially: The project is designed to promote rights of the most vulnerable groups within communities and households by supporting them to engage in livelihood options that do not discriminate against cultural norms. The project is designed to promote governance and improved management of natural resources including land, water, forests, grass, soil and wind by proposing to capacitate the grass root resource management leadership frame works and engagement of key stakeholders. Also, the project interventions are geared towards improving the capacity of resource poor women, youth and people with disabilities by establishing, managing and benefiting from nature-based solutions without any form of discrimination. The memorandums of understanding between struggle against poverty and relevant partners like district environment office, ministry of water and environment, national forest authority, Iganga district commercial office, village and sub-county leadership will enhance social cohesion. Additionally, the trainings on gender roles and responsibilities, conflict sensitivity, accountability, managerial skills, group dynamics, conflict management, managing information, forest policies and other policies governing other natural resources among others will all contribute to social cohesion, reduced conflicts, strengthened governance and leadership for natural resources and people.

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Environmentally. The project supports acquisition of assorted machinery like clay cutters, clay carriers, clay compressors, clay mixer which are locally made from Uganda for the operationalization of the vertical shaft brick kiln technology. This technology does not lead to land expansion and no GHG ,emissions involved-of-any-kind. Ecosystem restoration activities for wetlands, river banks and reforestation of degraded forest areas will be supported. Furthermore, nature-based solutions will be promoted and sustainable land use management is-enhanced. Therefore, project beneficiaries will have adequate quantity and quality water for domestic use, wetlands restored, floods control will be improved, soil erosion control especially in sloping areas will be reduced replenishment of ground and surface water sources achieved. In posterity, community members will be able to realise benefits in form of improved land productivity for crop and livestock leading to higher

income, reduced greenhouse gas emissions and improved food security. Therefore, such proposed interventions will not only ensure water and food secure communities but also increasing resilience of the ecosystems, biodiversity and human populations against floods, erosion and pollution or contamination of water and soil resources in the project area. Although most of the project activities comply with all the relevant National and laws, regulations and standards as well as the relevant international laws and regulations, activities like 1.1 under component one that will involve acquisition of assorted machinery as well as Activities 3.1 under component three involving undertaking Income Generating Activities (IGAs) like bee keeping, commercial tree nurseries, Mushroom growing, that may require Environment Impact Assessment (EIA) depending on the size and the location of their implementation to determine their impacts and to comply with national and international standards, laws and regulations. However, for the identified project activities there is no need for mitigation measures since they generate no risks. In situations where, access and ownership of land and other related resources including finance is limited for Women, youth and other vulnerable groups and this may limit their participation, opportunities and benefits from project activities especially agricultural based activities and those that need reasonable amounts of money to start up like IGAs. Issues and proposed actions specific to each group have been captured and incorporated in the design of the project to ensure equitable participation in the project activities and access to project benefits by all groups including men women, elderly, youth and any other vulnerable and marginalized groups without discrimination. Overall, to mitigate negative impacts of the interventions highlighted among others in compliance with Adaptation Fund Environmental and Social Impact Assessments, Gender analysis supported by a complete gender action plan as well as a grievance redress mechanism have been undertaken into account as illustrated below:-

<u>Results</u>	<u>Gender Action Plan</u>
<u>None involvement of women in development programs</u>	<u>In all forms of trainings, the involvement of both females and males will be paramount. Factors that impede on their participation during training will be eliminated.</u>
<u>Society has traditionally assigned manual labor and engineering work to boys and men only</u>	<u>This project will deliberately seek both female and male to take up such roles. In this way, the men might feel that they stand to lose but this will be discussed and clarified accordingly.</u>
<u>Low participation of girls in Marketing</u>	<u>This project shall empower females too to participate actively in marketing their own bricks and nature based solution products to determine how the accrued income is utilized. This will be done through trainings attended by both the female and male direct beneficiaries of this project.</u>

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roles,
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. In order to sustain the benefits to vulnerable groups in the targeted communities, the project-monitoring plan as well as the Grievance mechanism shall incorporate gender equity and women empowerment issues for follow up during project implementation and ensure that project reports provide and emphasize gender-segregated data.

C. Describe how the project encourages or accelerates development of innovative adaptation practices, tools or technologies and/or describe how the project helps generate evidence base of effective, efficient adaptation practices, products or technologies, as a basis for potential scaling up.

The vertical shaft brick kiln technology operationalization will employ a hybrid model for its sustainability. This will be achieved through a commercial wing. In short, the project will produce much needed clay products which will be on very high demand not only in Iganga district but in Uganda as whole to support the construction industry. In order to scale this innovation, this project will employ a mix of donor/private/philanthropic and commercially generated funds. From the original vertical shaft brick kiln, there will be sales part of which will be used for scaling up. Aware that the target area is very large, it is necessary to obtain funding from donors and from the private sector. The project will generate its revenue from the nature-based solution products and sale of products from vertical shaft brick kiln technology like building bricks, floor tiles, decorative grilles, roofing tiles, walling and partitioning blocks, suspended floor units, maxi pans and facing bricks that are constantly on high demand. The revenue model is quite simple. It will involve the production of very good quality bricks and other products at a very minimal cost. And the revenue stream will include on demand payment, discounts, research, product diversification and advertisements. The people of Iganga district and the neighbouring districts will feel proud of and will identify with the products as they will see them as 'their own'. In marketing, this cultural loyalty is very important and will boost the sales and therefore income of the project. Private property developers and educational institutions will be the main customers of this project. Additionally, the manufacture of durable bricks by VSBK innovation will be our comparative advantage compared to the current weak bricks that are manufactured today using the traditional methods. Our customers will be individuals and companies that will be building at any time and we shall be opening up outlets for growth. We shall be selling good quality building bricks as our products to customers in exchange for up-front payments. On average 50,000 building bricks in a week will be sold with costs and profits as per this breakdown:-

Weekly Number of Building Bricks	50,000
Unit costs of a building brick for Materials and Labour	USD. 0.05
Unit selling price for a building brick	USD. 0.062
Gross profit	USD. 3,100
Estimated weekly consolidated operating costs	USD. 1,000
Profit before Tax	USD. 2,100

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18% Value Added Tax (VAT)	USD. 378
A net weekly profit of	USD. 1,722

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From the above while using the traditional methods, 50,000 bricks will be obtained after 6 months or so in addition to using of huge tons of tree cuttings, grass, water, a lot of man power and with a lot of emissions which emissions are dangerous to human health as compared to the VSBK innovation. Struggle Against Poverty assumes that the demand for building bricks these products will rise basinged on their excellent quality and they will be affordable to customers as they will be locally made. The initial 200 school dropout -out of school youths who will be trained will lead to cost effectiveness in that they will be trainer of trainers as we shall be and these will help scaling up the technology to other locations villages in Iganga district and Busoga sub-region as whole; in addition, to the advantage of having good clay within the communities and the required equipment and machinery which can be easily be obtained locally in Uganda.

Furthermore, the nature-base solutions will lead to increased economic security whileand less reliance on climate-sensitive activities will be minimised hence complimenting amongst all the three components. For sustainability, The he project will be owned by the out of schoolschool drop out youths from the target 9 pilot villages of Bubogo B, Walugogo, Nabikoote, Namufuma, Kawete, Nabitende, Nasunti, Nambale, and Namusala, Iganga District. The 200 school dropoutout of school youths both female and male, will be facilitated by struggle against poverty to organise an annual general meeting to elect a project ownership committee (POC). All the out of schoolThe 200 200-youths will have voting rights and rights to be voted for. This project ownership committee (POC) will comprise of 10 members; that is to say 6 males and 4 females in addition to the secretary general of struggle against poverty who will be an ex-official. The project ownership committee (POC) will hold office for one year but will be meeting quarterly to review and evaluate the operations of the project. The VSBK scale – up will involve establishing another VSBK in another district within two years to cater for the expanding product needs. And one of the roles of the committee will be to ensure that the existing project saves funds enough for the scale-up initiatives.

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D. Please confirm whether the project meets relevant national technical standards, where applicable, such as standards for environmental assessment, building codes, etc., and is in line with the Environmental and Social Policy of the Adaptation Fund.

The project is expected to contribute to the various relevant National technical standards and policies; including the Uganda Vision 2040 whose goal is to transform Uganda from a predominantly peasant and low-income country to a competitive upper middle-income status country by 2040. It provides the overall leadership and policy direction for job creation and priority setting. The Uganda Vision 2040 sets out to the country's commitment for efforts to attain a green and clean environment. The project contributes to the Kyoto Protocol an international treaty which extended the 1992 United Nations Framework Convention on Climate Change (UNFCCC) that commits state parties like Uganda to reduce greenhouse gas emissions, based on the scientific consensus that (part one) global warming is occurring and (part two) that human-made CO 2 emissions are driving it. The project strives to contribute to Uganda's vision 2040 and the Kyoto protocol, by creating clean and green jobs for the youths of Iganga and at the same time reduce carbon emissions through the operationalization of the vertical shaft brick kiln technology.

The project contributes to Social Development Goals (SDGs), specifically SDG 1, 13, 15 and 17 that aim at eliminating poverty, climate action life and land, and promoting partnerships for developing the knowledge base and effective capacity development, Environment and social policies which the projects alludes to. The project is in line with the Climate Change Policy (NCCP) 2015. The country recognizes that climate change is one of the greatest challenges facing humanity. The overarching policy objective is to ensure that all stakeholders address climate change impacts and their causes through appropriate measures, while promoting sustainable development. The project contributes to the Uganda NDC Partnership Plan For Climate Action 2018. The five priority areas for Uganda identified in its NDC Partnership Plan are: strengthened operational and gender-responsive policy and institutional frameworks for the effective governance of climate change; increased climate financing for planning and budgeting on the national and local levels; effective and institutionalized measurement, reporting and verification (MRV) systems to monitor greenhouse gas emissions and gender-responsive adaptation measures; strengthened capacity of government officials, civil society, the private sector and academia to effectively integrate NDC with gender lens. The National Environment Management Policy 1995. The National Environment Management Policy sets out the overall policy goals, objectives and principles for environmental management in Uganda. Its overall goal is sustainable social and economic development, which maintains and enhances environmental quality and resource productivity to meet the needs of present generations without compromising the ability of the future generations to meet their own needs. It recognizes that Uganda faces a number of environmental issues including: soil degradation, deforestation, loss of biodiversity, increasing pollution and environmentally related diseases. These problems are compounded by poverty, low amounts of environmental awareness and low levels of technology. The policy recognizes climate as a 'vital natural resource' that needs to be monitored in order to better direct land use, encourage sustainable economic development, and manage air pollution, and GHG emissions future programs; and accelerated project financing for NDC implementation. All the project components 1, 2, and 3 are in line with the objectives of this overarching policy. The National Forest Policy 2001. The key issues addressed by the Forestry policy include maintenance and enhancement of the Permanent Forest Estate, improve the management of forest resources on private and customary land, address the underlying causes of deforestation, including lack of policy support, market failure, weak regulation and rural poverty, capitalize on the economic, social and environmental opportunities in forestry without undermining the resource base, ensure the survival of forest biodiversity and to balance this with the pressing development needs of the country, how to rehabilitate and conserve key watershed forests, how to promote and maintain the greening of the urban environment, as well as ensuring improved tenure to land and trees that acts as an incentive for individuals, and women in particular, and communities to invest in forestry among others. Forestry plays a very important role in enhancing the resilience of ecosystems and some of the activities under component 3 are confirmed to be in line with this policy. Both men and women will participate and benefit from the project outcomes. In this regard the Uganda National Gender Policy 2007 as an integral part of the national development policies. is a framework for redressing gender imbalances as well as a guide to all development practitioners. The project is gender sensitive, as it emphasis and recognizes "gender" as a development concept useful in identifying and understanding the social roles and relations of women and men of all ages, and how these

impact on development. This is applicable to all the three project components and efforts shall be made to ensure that all categories of people benefit from the project without discrimination. The National Environment (Noise Standards and Control) Regulations, 2003. Section 7 of these regulations requires that no person shall emit noise in excess of permissible noise levels, unless permitted by a license issued under these Regulations. Section 8 imparts responsibility onto project developers to use the best practicable means to ensure that noise does not exceed permissible noise levels. This applies to sub-projects under components 1 and 3 that are confirmed to contribute to this specific regulation.

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E. If applicable, describe the learning and knowledge management component to capture and disseminate lessons learned.

The learning and knowledge management will involve a process of systematically documenting all aspects of the project implementation with a view to producing a prototype that will be appropriate, relevant and customized to the brick making needs and nature-based solutions in Iganga district in particular and Uganda in general. All the participants will be encouraged and supported to document the process of the project through writing, giving and receiving feedbacks, doing assessments, training, creating databases, performing demonstrations by comparing old and new technologies and nature based solutions, easy information package, creating clear channels of passing on information and audio-visuals; which will cater for all categories of the society namely literate, illiterate, and semi-literate. Furthermore, the learning and knowledge management will be characterized by developing a knowledge management strategy that will be revisited monthly to ensure that the strategy remains relevant and evolves the project objectives, rollout the knowledge management strategy through meetings and forums, foster broader knowledge sharing with relevant stakeholders, establish knowledge management team to promote engagement in the various knowledge management activities on a going basis with clear tasks and responsibilities as well as budget creation, publications, stories, videos, photo galleries, fact sheets will be developed, printed and disseminated in order to facilitate knowledge and achieve more exposure by sharing with relevant stakeholders, struggle against poverty website will be updated to serve as the primary knowledge engagement platform, social collaboration, use social media to openly share best practices. To achieve all these, there will be guiding principles like transparency, accountability, committed management participation and collaboration, flexibility and cost effectiveness all through.

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F. Provide an overview of the environmental and social impacts and risks identified as being relevant to the project. Describe how the project will engage, empower and/or benefit the most vulnerable communities and social groups, including gender considerations, in line with the Environmental and Social Policy of the Adaptation Fund.

Both direct and indirect More than 50,000 out of school youths will have gainful alternative livelihood skills that do not destroy the environment. Deforestation will be reduced by 10% in Iganga district. Community organizing will be instituted with a view to revamp and revitalize the forests in Iganga district. An operational vertical shaft brick kiln demonstration site will be available in Bubogo B village of Namung'alwe Sub County of Iganga district, swamp reclamation will be eliminated in Iganga district. This will be done in

partnership with relevant district authorities. District and Sub County local governments effectively enforce laws that protect the environment with a dynamic system of sharing ideas, plans and strategies with the other actors including communities. However, risks include:-

a)Willingness of the communities to change from their 'traditional' way of brick making and burning. We consider this a low level risk because the communities now recognize the high costs associated with one-time-use brick kilns which include: heavy demand of water, grass to cover green bricks and a lot of fire wood to fire the brick kilns. The vertical shaft brick kiln will be a very welcome innovation that the communities will aspire to have. A few will be hesitant yet this innovation will spread like a wild fire in the short to medium term. b) The rather high initial costs of establishing a vertical shaft brick kiln could lead to resistance from resource poor communities to change to the vertical shaft brick kiln technology from the traditional one-time-use brick kilns. It is estimated that a viable vertical shaft brick kiln structure without equipment or machinery costs about USD 35,000 to erect. Resource poor communities cannot afford such investment capital, aware that they may not even raise US\$ 800 annually. Struggle Against Poverty assesses this as a low level risk since the vertical shaft brick kiln was already put up with supported from The United Nations Development Programme (UNDP) under the global environment facility small grants programme. c) Lack of technical know-how in the operation and maintenance of the proposed technology. This is the reason for this proposal. With the support from The adaptation fund, Struggle Against Poverty assesses this as a low level risk factor that can be dashed by approval and funding from The adaptation Fund. d) Local politicians are reluctant to regulate the local brick making industry for a couple of reasons. Firstly, the unfounded fear that many young people will become unemployed. Secondly, because the politicians fear to lose their votes as a consequence of sanctioning regulations that put masses out of employment. Nothing can be further from the truth! The benefits of operationalizing the technology, in terms of environment, local employment, construction, industry, thus micro and macro economy, unity, peace and health in the community far outweigh the negative effects. In short, the introduction of technology and nature-based solutions will have wider multiplier benefits to the local and national economy in form of:

- Regular and all year round brick production which is not dependent on favourable weather as is the case presently. Thus more sales of high quality bricks resulting into more income for the brick makers. Hence, reduction in poverty levels. The Adaptation Fund - ESP requires that projects comply and respect the laws, people's rights, gender equity, heritage, and biodiversity and environment management. Therefore, since most of the project activities have no adverse environmental and social impacts, the anticipated project impacts are few, reversible and can easily be mitigated.

G. Provide justification for funding requested, focusing on the full cost of adaptation reasoning.

The proposed project activities comply with full-cost of adaptation reasoning because are costs that are interpreted as "the costs associated with implementing concrete adaptation activities that address the adverse effects of climate change", as specified in the OPG main text. This states that in the OPG annex 5 "the proposal should demonstrate that the project/programme activities are relevant in addressing its adaptation objectives and that, taken solely, without additional funding from other donors, they will help achieve these objectives.

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Operationalization of a brick manufacturing technology that contributes to climate change adaptation: USD 95,000.

Traditional methods of brick making such as the “one- time use” brick kilns for burning of the building bricks, has damaged and continues to damage the environment by producing gross carbon emissions, claim arable and fertile soils, and encourages frequent cutting of grass and trees. It is against this background that this project is proposing the support of acquisition of assorted machinery like 3 clay cutters, 2 clay carriers, 1 clay compressors, 1 clay mixer and 1 second hand clay transportation truck which are locally ~~made~~ freavailable in m Uganda for the operationalization of the vertical shaft brick kiln technology. This technology does not lead to land expansion, emissions of any kind, Ecosystem restoration activities for wetlands, river banks and degraded forest areas will be saved. Additionally, the technology will be income generating to youths hence, improved livelihoods.

Training and information sharing: USD 50,000.

There is limited awareness and capacity on the risks and adaptation actions associated with the increasing frequency and intensity of environment abuses amongst stakeholders. Such limited capacity and awareness is not only leading to poor planning and responses to environment abuses but also impedes the ability of local communities and other stakeholder to cope and adapt to the impacts such as loss of assets, properties, lives, destruction of the general environment leading to ecosystem pollution and contamination thereby increasing waterborne diseases, water insecurity and food insecurity low incomes and limited livelihood options. Based on such challenges, the project will support knowledge management and awareness creation through documentation of good practices and lessons on environmentally friendly technologies, and best practices from project interventions will be generated, packaged and disseminated by Struggle Against Poverty project staff in consultation with the Ministry of Water and Environment. The trainings, - and information sharing component will allow generation, packaging and development of information materials on climate change adaptation.

Establishment of nature-based solutions for improved community livelihoods: USD 47,500.

The increase in the population and upcoming developments is triggering pressure on natural resources reflected in deforestation and ecosystems degradation such as degradation of wetlands for rice cultivation, brick manufacturing, food and water. With a young population, pressure on water and related resources is likely to escalate. The effects of agricultural expansion coupled with intensive land fragmentation, unsustainable crop farming practices, overexploitation of natural resources in Iganga district is rife. From the layout of the project, it will provide economic benefits by directly contributing to improving the alternative livelihoods and incomes of the community members. This is possible especially considering the key interventions like establishing nature-based solutions such as conservation of wetlands, afforestation, good agriculture practices, plastic wastes recycling, bee keeping, mushroom growing, commercial tree growing, and making briquettes as fuel from wastes are expected to engage the youths in such alternative livelihood options which will increase incomes that will be utilized to enhance production at household and community levels. And also, the incomes from such products will be used for restoration activities by procuring more tree seedlings, creating tree nurcesary beds and other relevant tools required for replication of the nature based solutions in other villages of Iganga district.

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PART III: IMPLEMENTATION ARRANGEMENTS

A. Describe the arrangements for project / programme implementation.

The overall project goal is Build community capacity to adopt energy efficient and climate resilient technology for manufacturing of building bricks~~Climate Change Adaptation through technology and nature-based solutions~~

The project implementation is arranged as below:-

No	Organisation	Roles and Responsibilities
1	Ministry of Water and Environment	<ul style="list-style-type: none"> The accredited National Implementing Entity. Oversee overall financial and monitoring aspects of the project Reporting of project consolidated results to the Adaptation Fund Approval of project annual work plan and budget from the Executing Entity Approval of annual financial and technical reports from the Executing Entity Provide administrative and management support to the executing entity
2	Struggle Against Poverty	<ul style="list-style-type: none"> The Executing Entity Coordinate project management and implementation Ensure that the project creates impact on the targeted beneficiaries Project Monitoring and Evaluation Ensure compliance of project interventions with the national frameworks Prepare and submit quarterly, annual work plans and budgets to MWE. Provide quarterly and progress reporting to MWE Provide designated key personnel for coordination of project execution such as the Project Coordinator, Accountant and Monitoring, and Evaluation Officer Ensure liaison on project activities among and between the MWE, target beneficiaries and key relevant key stakeholders
3	Iganga District and Sub-county Environment and Commercial Offices	<ul style="list-style-type: none"> Participate in direct implementation of project interventions. Participate in planning and implementation of project interventions
4	Beneficiaries (Youths, Women,	<ul style="list-style-type: none"> Participate in direct implementation of

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People with disabilities)	project interventions
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B. Describe the monitoring and evaluation arrangements and provide a budgeted M&E plan.

Struggle against poverty (SAP) will systematically utilize its integrated Monitoring, Evaluation, Accountability and Learning (MEAL) tool. This will enable improved inclusion of target beneficiaries through proactive participation in access and protection interventions from planning and reviews to a shared learning, information provision, feedback sessions and complaint redress mechanisms. Feedback loops will be strengthened between target beneficiaries, service providers and Struggle against poverty to collect, process and share information on the quality and relevance of the program taking into account the needs of the targeted beneficiaries. Monthly reports: These shall outline the work accomplished in the preceding month, the work expected to be completed during the coming month, and where appropriate, comments and / or recommendations relating to any unforeseen conditions which may affect the progress or the quality of the work. These reports shall be for internal use only and their distribution shall be restricted to struggle against poverty. Quarterly reports: These will include summaries of the physical progress in project implementation with an explanation of variances from implementation targets. The Secretary General will prepare an annual summary report, based on information provided by other project implementation team. The report will clearly describe and assess each specific outcome and activity's progress against the overall aim and established work plan as well as provide an aggregate view of the project as a whole. Also, a database will be used to capture the details of beneficiaries and incomes or sales. During this program duration, the database will continuously be used to store, analyse and share knowledge. The Financial reporting as part of the project quarterly and annual progress reports will compare costs for actual activities for the current reporting period with the budget for the same period, and in the same currency. Evaluation of the project will be a continuous process. Internal evaluation arrangements for the project will be determined on a needs basis. The need to conduct internal evaluations will be discussed and agreed upon in project management meetings, and approved by the Secretary General. The review will generally be carried out by SAP team while the spot checks, mid and annual evaluation process of the project will be carried out jointly by SAP staff and its partners but spearheaded by the adaptation focal person from the ministry of water and environment.

C. Include a simple results framework for the project proposal, including milestones, targets and indicators.

Hierarchy of Objectives	Indicators	Method of collection	Frequency of data collection	Person responsible	Frequency of reporting
Overall Aim/Goal Build community					

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capacity to adopt energy efficient and climate resilient technology for manufacturing of building bricks					
Climate Change Adaptation through technology and nature-based solutions					
Objective 1 Build community capacities to adapt energy efficient and carbon emission free technology for manufacturing of building bricks by June 2025	<ul style="list-style-type: none"> 200 out of 60% of school youths (60% Males and 30% women/females) adopt VSBK technology for brick making Number of indirect beneficiaries (50% women) adopting VSBK technology for brick making. %age of greenhouse gas emission reduced. Number of by-laws on VSBK technology adopted for brick making 	<ul style="list-style-type: none"> Training Reports with photos Meetings with community members. Articles in the local Newspapers IEC materials Videos 	Daily	Secretary General	Monthly
Objective 2 - Promotion of nature-based solutions for alternative community livelihoods by June 2025.	<ul style="list-style-type: none"> Number of IEC materials developed and disseminated %age of beneficiaries adopting climate change best practices 	<ul style="list-style-type: none"> Training Reports IEC materials Documentary Articles in the local Newspaper Radio talk shows. TV adverts 	Quarterly	Secretary General	Quarterly

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			 <u>Social media adverts</u>			
Objective 32 <u>Promotion of nature-based solutions for alternative community livelihoods</u> <u>To promote nature-based solutions for improved community livelihoods by June 2025.</u>	 <u>Number of Market linkages identified</u> <u>Local purchase orders and service contracts signed and running</u> for nature-based solutions  <u>% of female and male youths practicing nature-based solutions</u>  <u>Number of youths adopting entrepreneur skills</u> <u>business plans and business proposals on conservation of wetlands, afforestation, good agriculture practices, plastic wastes recycling, bee keeping, mushroom growing, commercial tree growing, making briquettes as fuel from wastes, soil mulching</u>	 <u>Project implementation reports</u>  <u>Field visit reports</u>  <u>Interviews with local leaders and community members</u>	Daily	Secretary General	<u>Monthly</u> <u>Quarterly</u>	
Monitoring and Evaluation						
Holding meetings with <u>POC</u> , SAP community, staff and board members.	 4 meetings held with SAP staff, board and community members	 Minutes	Daily	Secretary General	Quarterly	

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Conduct joint project spot-checks	At least 4 project joint spot visits conducted	Spot visit Reports	Quarterly	Adaptation Focal Person	Quarterly
Mid-term evaluation	One held in <u>March December 2023</u>	M and E Report	Bi-annual	Adaptation Focal Person	Bi-annual
Annual project evaluation	One held in <u>September-June 2023/2024.</u>	M and E Report	Annually	Adaptation Focal Person	At Project end
Conduct financial audit of the project	Unqualified audit report conducted	Audit Report	Annually	Secretary General	At Project end
Procurement of core administrative costs					
Pay salaries to SAP staff	Existence of reliable and committed SAP staff	Staff contracts	Daily	Secretary General	Monthly

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D. Demonstrate how the project / programme aligns with the Results Framework of the Adaptation Fund. This is explained as per the reflections in the table below:-

Project Objective(s) ³	Project Indicator(s)	Objec Fund Outcome	Fund Outcome Indicator	Grant Amount (USD)
Build community capacities to adapt energy efficient and carbon emission free technology for manufacturing of building bricks	1.1 Proportion of youths and key stakeholders adapting VSBK technology as a climate change mitigation solution. 1.2 Proportion of greenhouse gas emissions reduced 1.3 Number of by-laws on VSBK technology adapted for brick making 2.1 Number of <u>Market linkagesLocal purchase orders and service contracts</u>	Outcome 3: Strengthened awareness and ownership of adaptation and climate risk reduction processes at local level people in targeted areas Outcome 6: Diversified and strengthened livelihoods and sources of	3.1. Percentage of targeted population aware of predicted adverse impacts of climate change, and of appropriate responses. 3.2. Percentage of targeted population applying appropriate adaptation responses 6.1 Percentage of households and communities having more	

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³ The AF utilized OECD/DAC terminology for its results framework. Project proponents may use different terminology but the overall principle should still apply

	signed identified for nature-based solutions 2.2 Number of youths business plans and business proposals developed and adopted on -nature-based solutions	income for vulnerable people in targeted areas	secure access to livelihood assets 6.2. Percentage of targeted population with sustained climate-resilient alternative livelihoods	
Project Outcome(s)	Project Outcome Indicator(s)	Fund Output	Fund Output Indicator	Grant Amount (USD)
1.1 Reduction of greenhouse gas emissions from the current traditional, energy inefficient and one time-use brick kilns 1.2 Regular employment among the youths	Number of Key grass root stakeholders who have acquired and demonstrate practical knowledge and skills of how well-designed climate resilient development measures can significantly and concretely contribute to economic development,	Output 2.1: Strengthened capacity of national and sub-national centres and networks to respond rapidly to extreme weather events	2.1.1. No. of staff trained to respond to, and adaptation impacts of, climate-related events (by gender)	95,000
2.1 Lessons and good practices shared and adopted.	Number of development plans incorporating climate change resilience issues Good practices and lessons from the project are documented and influence policy	Output 3.1: Targeted population groups participating in adaptation and risk reduction awareness activities Output 3.2: Strengthened capacity of national and subnational stakeholders and entities to capture and disseminate knowledge and learning	3.1.1 No. of news outlets in the local press and media that have covered the topic 3.2.2 No. of tools and guidelines developed (thematic, sectoral, institutional) and shared with relevant stakeholders	50,000
3.1 Enhanced ecosystem	Proportion of	Output	5.1. No. of	47,500

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health	ecosystems restored	5:Vulnerable ecosystem services and natural resource assets strengthened in response to climate change impacts, including variability	natural resource assets created, maintained or improved to withstand conditions resulting from climate variability and change (by type and scale)	
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E. Include a budget, including a budget on the Implementing Entity management fee use, and an explanation and a breakdown of the execution costs.

Detailed Budget and timeframe	Unit	Budget		Timeframe			
		Unit Cost (US\$)	Amount (US\$)	Q1	Q2	Q3	Q4
Component one: Operationalization of a brick manufacturing technology that contributes to climate change adaptation							
Activity 1.1. Development of VSBK technology training manual	Annually	2,500	2,500	x			
Activity 1.2 Training youths and key stakeholders in VSBK technology construction and operations	Annually	4,500	4,500	x			
Activity 1.3. <u>Operationalise the Acquire-assorted VSBK technology by acquiring assorted Equipment and Machinery (3 Clay cutters, 2 clay carriers, 1 clay mixer, 1 clay compressor and 1 second hand clay transportation truck)</u>	Assorted	61,000	61,000	x			
Activity 1.4 Procure a piece of clay land deposits and certifications fees	Annually	25,500	25,500	x			
Activity 1.5. Engage relevant sub-county and district leadership on formulation of by-law(s) on VSBK technology adaption	Quarterly	500	1,500		x	x	x
Sub-Total			95,000				

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Component two: Training and information sharing							
Activity 2.1. Support exchange visits for information sharing and cross-learning of innovative climate change adaptation interventions	Monthly	1,500	4,500		*	*	*
Activity 2.21. Organize <u>Radio, TV and social media</u> learning forums on climate change adaptation	Quarterly	3,000	9,000		x	x	x
Activity 2.32. Document lessons and good practices on climate change adaptation and disseminate for replication and up-scaling	Monthly <u>Quarterly</u>	43,000	12,000	x	x	x	x
Activity 2.43. Develop, print and disseminate various IEC materials <u>like 10,000 leaflets, 10,000 brochures 500 calendars, 500 T-shirts and 500 caps</u> on climate change adaptation measurers	Annually <u>Annually</u>	247,500 <u>250</u>	24,500 <u>29,000</u>		*	x	
Sub-Total			50,000				
Component three: Establishment of nature-based solutions for improved community livelihoods							
Activity 3.1. Train <u>200 out of school</u> youths in <u>business planning and proposal development on</u> 8 nature-based solutions (conservation of wetlands, afforestation, good agriculture practices, plastic wastes recycling, bee keeping, mushroom growing, commercial tree growing and making briquettes as fuel from wastes)	Quarterly	6,750	13,500	x	x		

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Activity 3.2. Procure <u>various compound flower seedlings, wooden containers and watering cans to set up a demonstration on conservation of wetlands, tree seedlings for demonstration on afforestation, long grass to demonstrate mulching for good agriculture practices, obtain a grinder, washer and a drier to demonstrate on plastic wastes recycling, wooden bee boxes for bee keeping, acquire Spawn, Filter patch bags, Steamer and Flow hood for mushroom growing, various tree seedlings for commercial tree growing and acquire local made machine for briquettes production from wastes)necessary tools to establish 8 nature-based solutions identified in 3.1 above</u>	Annually	25,000	25,000	x			
Activity 3.3. Facilitate the identification of markets for products from the 8 nature-based solutions identified in 3.1 above	Quarterly	3,000	9,000		x	x	x
Sub-Total			47,500				
Project staff salaries for Secretary General, Monitoring & Evaluation Officer and Accountant for 12 months	Quarterly	7,500	30,000	x	x	x	x
Sub-Total			30,000				
Monitoring, <u>Auditing-Auditing, Rent, Communication and other operational</u> Costs	Lump Sum	Lump Sum	<u>3,7509,000</u>	x	x	x	x
Sub-Total			3,759,0009				
Total Executing Entity Costs							
Management Costs for the implementing Entity	Lump sum	<u>Lump-sum</u>	<u>23,75018,500</u>	x	x	x	x
Sub-Total			23,7518,5009				
Grand-Total			250,000				

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F. Include a disbursement schedule with time-bound milestones.

Milestones	Disbursement schedule	Amount %tages	in
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A	Notification of Project Start	September 2022 June 2023 01,	90%
A	Project Monitoring Report 1	March 30 December 31 , 2023	5%
A	project Monitoring Report 2	September 2023 June 2024 30,	5%
	Total		100%

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PART IV: ENDORSEMENT BY GOVERNMENT AND CERTIFICATION BY THE IMPLEMENTING ENTITY

A. Record of endorsement on behalf of the government⁴ Provide the name and position of the government official and indicate date of endorsement. If this is a regional project/programme, list the endorsing officials all the participating countries. The endorsement letter(s) should be attached as an annex to the project/programme proposal. Please attach the endorsement letter(s) with this template; add as many participating governments if a regional project/programme:

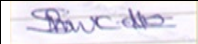
James Kaweesi, Adaptation Fund Focal Person- Ministry of Water and Environment Email: jkaweesi11@gmail.com	Date: January, 27 February 06, 2022 2023
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B. Implementing Entity certification Provide the name and signature of the Implementing Entity Coordinator and the date of signature. Provide also the project/programme contact person's name, telephone number and email address

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I certify that this proposal has been prepared in accordance with guidelines provided by the Adaptation Fund Board, and prevailing National Development and Adaptation Plans (capacity strengthening for adaptation to climate change, strengthening gender considerations ..list here.....) and subject to the approval by the Adaptation Fund Board, commit to implementing the project/programme in compliance with the Environmental and Social Policy of the Adaptation Fund and on the understanding that the Implementing Entity will be fully (legally and financially) responsible for the implementation of this project/programme.



Mukaire Rashid, Implementing Entity Coordinator

Date: ~~January~~ 27February 06,
~~2022~~2023

Tel. and email: Apstruggle@gmail.com

Project Contact Person: Mukaire Rashid

Tel. And Email: +256752105725

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1 Climate Service Center Germany (2015). Climate-fact-sheet. Uganda. Updated version 2015.http://www.climate-service-center.de/products_and_publications/fact_sheets/climate_fact_sheets/index.php.en

2 Uganda Climate Action Report, 2016. Resilience and Economic Inclusion Team. Irish Aid 2017.

3 Anonymous 2021. <https://climateknowledgeportal.worldbank.org/country/uganda/climate-data-projections?variable=p>

⁶ Each Party shall designate and communicate to the secretariat the authority that will endorse on behalf of the national government the projects and programmes proposed by the implementing entities.

Telephone : 256 41 4341305/230487
Fax : 256 41 4233524
Email : finance@finance.go.ug
Website : www.finance.go.ug
Plot No. 2-10 Sir Apollo Kagga Road
In any correspondence on
This subject please quote No. ALD 141/221/01



Ministry of Finance, Planning &
Economic Development,
P.O Box 8147
Kampala, Uganda

4th October 2022

The Adaptation Fund Board
C/o Adaptation Fund Board Secretariat
Email: secretariat@Adaptation-Fund.org
Fax: 202 522 3240/5

**ENDORSEMENT FOR A PROJECT PROPOSAL: CLIMATE CHANGE
ADAPTATION THROUGH OPERATIONALIZATION OF VERTICAL
SHAFT BRICK KILN TECHNOLOGY IN IGANGA DISTRICT**

I have the honor to refer to your call for proposal under the Small Grant project proposals to support innovations and enhanced direct access.

With the support of the Struggle Against Poverty, Uganda has developed a project proposal aimed at building community capacities to adapt to manufacturing of energy efficient and carbon emission free building vertical shaft brick kiln.

The Project aims at:

- 1) Operationalizing of a brick manufacturing technology that contributes to climate change adaptation;
- 2) Knowledge management and information sharing system development; and
- 3) Establishment of nature-based solutions for improved community livelihood

In my Capacity as the appointing Authority of the Designated Authority for the Adaptation Fund in Uganda, I confirm that the above project proposal is in accordance with the National Climate Adaptation Priorities of the Government of Uganda.

Mission

"To formulate sound economic policies, maximize revenue mobilization, ensure efficient allocation and accountability for public resources so as to achieve the most rapid and sustainable economic growth and development"

Accordingly, I am pleased to endorse this project proposal for support from the Adaptation Fund. If approved, the project will be executed by the Struggle Against Poverty and Implemented by the Ministry of Water and Environment.



Henry Musasizi (MP)

MINISTER OF STATE FOR FINANCE, PLANNING AND ECONOMIC DEVELOPMENT (GENERAL DUTIES) ALSO HOLDING THE PORTFOLIO FOR MINISTER OF FINANCE, PLANNING AND ECONOMIC DEVELOPMENT

Copy: -The Permanent Secretary/ Secretary to the Treasury
 -The Permanent Secretary, Ministry of Water and Environment

Mission

"To formulate sound economic policies, maximize revenue mobilization, ensure efficient allocation and accountability for public resources so as to achieve the most rapid and sustainable economic growth and development"