

## Appendix 1: Updated Logical Framework Matrix

Narrative Summary	Objectively Verifiable Indicators (OVIs)	Means of Verification (MOVs)	External Factors (Assumptions)
<b>Overall Objective</b> To create a resilient coffee value chain in Uganda through a bottom up perspective, on improving the market based approach so that environmental services are accounted for in the value chain.	At least 6 000 farmers empowered with favorable adaptation and mitigation practices using the Farmer Ownership Model for sustainable coffee production and transformed livelihoods in the coffee value chain.	Formal review and sharing Workshop organised for ministries and stakeholders.	Political will towards increased coffee production will continue (Government's Vision 2020 is 20 Million bags)
<b>Purpose</b> 1) To empower and create shared value among coffee farming families, the community and the buyers through enhanced access to market-driven payments for environment services from the farm to the factory. 2) To identify and undertake favorable adaptation and mitigation measures to create a sustainable coffee value chain. 3) To identify and provide adaptation and mitigation measures to be undertaken in Uganda's NAPA and NAMA development.	30 % increase in household income per Kg marketed of beneficiary farmers based on agreements with buyers of specialty, sustainable coffee; 1000 new jobs created; project contributions reflected in Uganda's NAPA and NAMA development. 20% increase in coffee productivity from 0.6 tons/ha.	Final Report prepared by NIRAS and NUCAFE and endorsed by UCDA	Budget contribution from local partners and NUCAFE is provided for implementation of the project.
<b>Output (Results)</b>  <b>O1. Baseline Report including modelled results of the quantification of potential emission reductions and adaptation benefits.</b>  <b>O2. Technical note to UNFCCC prepared.</b>  <b>O3. Farmer Ownership Model improved and implemented.</b>  <b>O4. Pilot project implemented demonstrating adaptation and mitigation possibilities at farm and factory levels.</b>  <b>O5. Specialty coffee brand developed and presented to buyers</b>  <b>O6. Upscale Report developed for national as well as international climate resilient coffee production value chain.</b>	O1. Baseline Report prepared O2. Technical note submitted to UNFCCC, MAAIF, and Ministry of Water and Environment. O3. 90% of targeted beneficiary coffee farming families operate within the Farmer Ownership Model by the end of the project O4. 10 mitigation and/or adaptation approaches/technologies implemented; resilient landscape in place; 3 km road upgraded/established near factory O5: 5 relevant wholesale buyers aware of the existence and quality of the specialty coffee. O6. Upscale Report are developed and submitted.	O1. Baseline Report submitted to NDF. O2. Confirmation of reception by recipients. O3. Field surveys, questionnaires. O4. Project reporting with photo documentation and statements from beneficiaries; Contracts with providers O5. Statements, minutes of meetings, enquiries and feedback from buyers O6. Confirmation of reception by recipients	Farmers and relevant organisations in Uganda willing to participate in improving and implementing the farmer ship model.  Relevant authorities willing to learn from the project and integrate learnings in NAMA and NAPA development
<b>Activities O1:</b> 1.1. Prepare baseline including identification of key parameters and measures for the value chain that in turn will be the foundation for the mapping and modeling of the mitigation and adaptation potential	AO1: 1.1. Baseline Report prepared 1.2. Workshops and meetings held	AO1: 1.0. Baseline Report 1.2 Minutes of meetings and workshops	Project is approved and funds are made available in accordance with the

<p>1.2 Sensitize stakeholders and beneficiaries on the relevance of the project</p> <p><b>Activities O2:</b></p> <p>2.1. Design, develop and submit technical note on adaptation and mitigation possibilities for the coffee value chain in Uganda</p> <p>2.2. Facilitate a stakeholder workshop for input in the specific measures and potential for the NAPA and NAMA development in Uganda</p> <p><b>Activities O3:</b></p> <p>3.1. Prepare improved version of the Farmer Ownership Model guidebook and manual in English and 5 local languages</p> <p>3.2. Deploy the Farmer Ownership Model capacity empowerment of small scale farmers through training</p> <p><b>Activities O4:</b></p> <p>4.1. Develop guidebook of climate smart agricultural (CSA) practices</p> <p>4.2. Training and empowering farmers and young entrepreneurs in CSA</p> <p>4.3. Develop and implement two learning modules for practical entrepreneurship</p> <p>4.4. Implement the most beneficial and efficient adaptation and mitigation actions identified in Activities related to O1 and O2.</p> <p>4.5. Develop climate resilient landscape around factory</p> <p>4.6. Develop community road-network around the factory</p> <p><b>Activities O5:</b></p> <p>5.1. Eco-friendly terroir coffee product development and brand improvement.</p> <p>5.2. Participation in promotion fares and exhibitions.</p> <p>5.3. Direct contact to potential buyers/markets</p> <p><b>Activities O6:</b></p> <p>6.1. Develop model for upscaling the business model national and internationally, that are aligned with Uganda NAPA and NAMA activities</p> <p>6.2 Prepare and disseminate technical report for upscaling business model.</p>	<p>AO2:</p> <p>2.1. Technical note developed jointly and prepared by NUCAFE and NIRAS and submitted.</p> <p>2.2. Stakeholder workshop conducted</p> <p>AO3:</p> <p>3.1. Farmer Ownership Model Guidebook prepared in 6 languages</p> <p>3.2. 40 training events with a total of 2000 participants for empowerment of small scale farmers</p> <p>AO4:</p> <p>4.1. Developed guidebook of climate smart agricultural practices</p> <p>4.2. 40 CSA training events with a total of 2000 participants</p> <p>4.3. Established demonstration of green energy power generation at factory.</p> <p>4.4 &amp; 4.5. The physical and quantified indicators for adaptation measures identified under O1 and O2 undertaken.</p> <p>AO5.</p> <p>5.1. Brand and marketing material produced</p> <p>5.2. Participation in 5 fares/exhibitions</p> <p>5.3. Meetings with 5 wholesale specialty coffee dealers</p> <p>AO6.</p> <p>6.1-2 Technical upscaling report distributed to relevant stakeholders</p>	<p>AO2:</p> <p>2.1 Technical note</p> <p>2.2 Workshop Reports with lists of participants</p> <p>AO3:</p> <p>3.1. Six versions available in print and pdf</p> <p>3.2. Training reports with lists of participants.</p> <p>AO4:</p> <p>4.1. Guidebook of climate smart agricultural practices in print and pdf.</p> <p>4.2. Training reports with lists of participants.</p> <p>4.3. Training reports with lists of participants.</p> <p>4.4. Procurement Installation and commissioning report for NUCAFE Solar power plant.</p> <p>4.5. Contracts, Receipts and technical/visual documentation.</p> <p>AO5.</p> <p>5.1 Copies of materials</p> <p>5.2 Photo documentation from fares</p> <p>5.3 Minutes from meetings</p> <p>AO6.</p> <p>6.1-2. Report (printed and pdf); list of recipients.</p>	<p>proposed schedule.</p> <p>Relevant approvals are granted timely (including for road construction, grid connection)</p>
<p><b>Inputs:</b></p> <p>GPS, topographical data, factory facilities, test and monitoring equipment, human resources, time, money, value addition facilities, potential usage of construction workers and workers for installing technologies and adaptation measures.</p>			<p>Installation approved and installed according to schedule</p>

Table 1. Activity Schedule

	Results and Activities	Responsibility	Year 1			Year 2		
			Month 1-4	Month 5-8	Month 9-12	Month 1-4	Month 5-8	Month 9-12
1	Project site area mapping and modeling							
1.1	Baseline Report	NIRAS and NUCAFE	X					
1.2	Sensitize stakeholders and beneficiaries	NUCAFE	X	X				
1.3	Stakeholder Consultation workshop	NIRAS and NUCAFE	X					
2	Developing Technical note to UNFCCC							
2.1	Development of Technical note	Technical note developed jointly by consultant, NUCAFE and NIRAS.		X	X			
2.2	Stakeholder workshop for NAPA and NAMA development	NUCAFE and NIRAS		X	X			
3	Development of the Farmer Ownership Model							
3.1	Prepare improved version of Farmer Ownership Model	NUCAFE and NIRAS	X	X				
3.2	Deploy the Farmer Ownership Model	NUCAFE		X	X			
4	Pilot combined adaptation and mitigation implementation at farm and factory level							
4.1	Develop guidebook of climate smart agricultural practices	NIRAS and NUCAFE	X	X				
4.2	Farmer empowerment and training	NUCAFE			X	X	X	
4.3	Demonstration green energy power generation at factory	NIRAS and NUCAFE	X	X	X	X		
4.4	Climate resilient landscape around factory	NUCAFE	X	X	X			
4.5	Community road-network around factory	NUCAFE and NIRAS	X	X	X	X		
5.	Establishing 2 specialty coffee markets that facilitate remuneration to small scale farmers for investments							
5.1	Participation in promotion fares and exhibitions	NUCAFE and NIRAS		X		X		
5.2	Eco-friendly terroir coffee product development and brand improvement.	NUCAFE and NIRAS		X	X			
5.3	Direct contact to potential buyers/markets	NUCAFE			X	X	X	
6	Upscale report for improving the coffee value chain in Uganda							
6.1	Business Model upscaling	NUCAFE and NIRAS					X	X
6.2	Technical report on business model upscaling	NUCAFE and NIRAS					X	X