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SECTION A. PROJECT DESCRIPTION

A. 1. Project eligibility under the Gold Standard

This project will introduce energy efficient cook stoves within Tanga and Muheza Wilayas and will reduce fuel use and associated greenhouse gas emissions by end users. Other benefits will include contributions to local issues such as deforestation and illnesses caused by smoke inhalation. This is in line with the stated aims of the GS.

The project will be classified as small scale, with a maximum estimated emissions reduction of 51 141 tonnes CO₂e/year, when applying the 180 GWhth limit specified by the UNFCCC. The project will be carried out inline with the Gold Standard methodology “Technologies and Practices that displace Decentralized Thermal energy consumption”.

The project falls into the end-use energy efficiency improvement category, defined as the reduction in the amount of energy required for delivering or producing non-energy physical goods or services.

The project type eligibility is outlined in Annex C of the gold standard methodology v2.1 under “Improved distributed heating and cooking devices (e.g. biogasifiers, cook-stoves), and distributed micro-scale electricity generation units (e.g. micro hydro and PV for households)”.

Eligibility criteria:

“Project activities involving a large amount of small, distributed heating, cooking or electricity generation devices using renewable energy sources shall provide the Gold Standard with a clear description of the transfer of credits ownership all along the investment chain, and with proof that end users are aware of and willing to give up their rights on emission reductions.”

Following free distribution of stoves, end users will be made aware that all credits generated will be transferred to co2balance and that in receiving the technology without payment they agree to this transfer. The project will reduce the production of carbon dioxide (CO₂), methane (CH₄) and nitrous oxide (N₂O). The project is located in Tanzania, a Least Developed Country (LDC) on the OECD Development Assistance Committees’ Overseas Development Assistance recipient list¹; this project however will not be a recipient of any ODA. A signed declaration attesting to this will be provided during validation and will appear in the GS passport for this project.

¹ <http://www.oecd.org/dataoecd/32/40/43540882.pdf>

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A. 2. Current project status

Provide information on the status of key project cycle stages (financing, equipment procurement, construction, commissioning) with dates where possible/ relevant.

Financing (May 2011)

Financing for the project beyond the pilot is currently being sought.

Equipment procurement (May 2011)

Major stove components are specific to the co2balance design and so are sourced by co2balance and supplied to stove contractors in kit form. Basic materials such as sand and cement are sourced by stove manufacturers. co2balance ensures that as many materials as possible are locally produced.

Project construction (January 2012 estimated)

Following the establishment of project baseline and emission reductions, stoves will be constructed in batches up to the small-scale project limit.

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SECTION B. DESIGN OF STAKEHOLDER CONSULTATION PROCESS

B. 1. Design of physical meeting(s)

i. Agenda

- Welcome and Opening of the meeting
- Introduction of speakers and key representatives
- Description of project
- Question and Answer Session
- Blind sustainable development exercise
- Discussion on monitoring sustainable development
- Vote of thanks
- Closure of meeting

ii. Non-technical summary

The Republic of Tanzania is divided into mkoas, wilayas and wards, wards being the smallest political sub unit and mkoas the largest. This project will involve the distribution of energy efficient stoves in 18 wards throughout Tanga and Muheza wilayas, themselves part of Tanga mkoa.

Tanga and Muheza Wilayas border the city of Tanga (population ~ 250 000), the most northerly seaport in the Republic of Tanzania. Owing to the preference for charcoal and other more expensive cooking fuels in urban locations, our Improved Woodfuel Cookstoves project will be installing stoves primarily in rural and peri-urban locations within Tanga and Muheza Wilayas. Availability of wood fuel in the areas surrounding Tanga city is influenced by demand from the city centre, whose inhabitants can afford to purchase charcoal and wood fuel at the expense of those people who rely on collecting wood for free. It is common in areas under such conditions of high demand for families to skip meals because they cannot gather enough firewood to cook their meals, which is a desperate situation. When this is combined with the environmental effects of local deforestation, such as increased surface run-off and flooding, desertification and unpredictable weather patterns, a clear need for action to reduce wood fuel demand is apparent.

Most families in rural and peri-urban locations use the traditional 3-stone cooking stove that produces a big fire and consumes large amounts of firewood. This means that a lot of time is spent collecting firewood that would be used otherwise for other developmental activities. The three stone fire also produces a lot of smoke which causes respiratory disease, particularly in women/girls who use it for cooking, but also in young children of both sexes and other people

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(e.g. the elderly) who spend a lot of time indoors. The use of this inefficient cooking method also has unintentional negative impacts on the environment surrounding local people.

The project will be attempting to address these issues by distributing 20,000 energy efficient CarbonZero Stoves to households in the project area that in the absence of this project would cook primarily using traditional inefficient firewood stoves. The Carbon Zero Stove saves over 50% firewood compared to the traditional three stone stove that is commonly used. The stoves will be constructed, distributed and installed by local people under the guidance of co2balance Tanzania Ltd. These stoves will utilise the efficient rocket technology that uses less firewood and emits less smoke; this will reduce daily firewood costs and alleviate illness caused by smoke inhalation.

A net effect of the distribution of a large number of efficient stoves is a reduction in greenhouse gas emissions associated with decreased combustion of firewood derived from non-renewable sources. It is on this basis that this project will rely on carbon finance for its funding and the following additional benefits outline why it has been submitted for Gold Standard status.

- Reduced deforestation and degradation of surrounding forests, as less wood will be needed to cook
- Reduced soil erosion and nutrient loss as trees protect the land
- Reduced risk of flooding in hilly areas as trees and plants on slopes soak up rain
- Reduced poverty, as the efficient wood stove reduces annual expenditure on cooking fuels;
- Reduced adverse health effects associated with indoor air particulate matter inhalation from the smoke due to the purpose-built stove design.
- Reduced cooking and wood collection time, which will allow more time to attend other household tasks and supervise children
- Reduced risk of attacks on firewood collectors (mainly women) in the remote areas generally used for firewood collection
- Reduction in burns and injuries as the CarbonZero stove is safer to cook on

iii. Invitation tracking table

Code	Organisation (if relevant)	Name of invitee	Way of invitation	Date of invitation	Confirmation received? Y/N
C	Richard S Muyungi	Division Of Environment (DNA)	Email	8/3/11	N

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D	Wildlife Conservation Society of Tanzania	Co-ordinator	Email	14/3/11	N
D	Hakizaki Catalyst	Co-ordinator	Email	14/3/11	N
D	Carbon Tanzania	Marc Baker	Email	14/3/11	N
D	HakiArdhi	Co-ordinator	Email	14/3/11	N
D	DONET - Dodoma Environmental Network (Tanzania)	Co-ordinator	Email	14/3/11	N
D	TaTEDO - Tanzania Traditional Energy Development & Environmental Organization (Tanzania)	Co-ordinator	Email	14/3/11	N
D	Envirocare	Co-ordinator	Email	14/3/11	N
D	Jane Goodall Institute TZ	P Galason	Email	14/3/11	N
	Tanzania Forest Conservation Group	Co-ordinator	Email	14/3/11	N
E	Gold Standard	Nahla Sabet	Email	8/3/11	Y
E	Gold Standard	Heba Rabie	Email	8/3/11	Y
F	WWF Eastern Africa Regional Programme Office (EARPO),	Kimunya Mugo	Email	8/3/11	N
F	WWF	Stephen Mariki	Email	8/3/11	N
F	Helio International	Laura E. Williamson	Email	8/3/11	N
F	Greenpeace Africa	Rianne Teule	Email	8/3/11	N
F	Mercy Corps, European Headquarters	Dory McIntosh	Email	8/3/11	N
F	REEEP	Amanda Luxande	Email	8/3/11	Y

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Please explain how you decided that the above organisations/ individuals are relevant stakeholders to your project. Also, please discuss how your invitation methods seek to include a broad range of stakeholders (e.g. gender, age, ethnicity).

When inviting organisations and individuals to attend the stakeholder meeting, we thought it is best to expand the selection in order to avoid missing out any organisations or individuals that could have a key interest in the activity. We opted for a small group of diverse participants chosen by their location, need, how affected they were by the traditional cooking methods and its consequences, their capacity to help us address the issue and their motivation to make the project work. Our main priority was to make certain that we did not fall into the trap of inviting only the visible and easy to access.

The diversity of stakeholders is reflected below:

- Village Chairmen
- Local Farmers
- Representatives of local conservation initiatives
- District Development Committee
- Ward Officials
- Representatives of similar initiatives in the area
- Secretary to the Council

Our invitation methods included email, telephone, hand delivery, personal invitation and also a radio broadcast.

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iv. Text of individual invitations



8/4/11

Re: Local Stakeholder Consultation, Mwambani Village

Dear Sir/Madam,

Award-winning environmental company co2balance - in collaboration with Camps International, a leading volunteering organisation - plans to develop an efficient cookstove project across 18 wards in Tanga and Mheza Wilayas, Tanzania.

co2balance intend to develop the project under the Gold Standard of the Clean Development Mechanism; this will ensure that enhanced local socioeconomic benefits as well as verifiable carbon dioxide (CO₂) emissions reductions are achieved.

The funds for the project are supplied by overseas carbon offset investors. co2balance invests these in energy efficient cooking technologies that reduce the CO₂ released by everyday cooking. In addition to the global benefit of reduced CO₂ emissions, this project will reduce indoor air pollution, reduce fuel costs and contribute to sustainable development and habitat preservation on a local level.

We have arranged a meeting with Local Stakeholders in which we seek their opinion on the project's design and social and environmental impacts; we believe this is an essential step in implementing a project in which the local community has ownership - thereby maximising the chances of successful adoption.

We value your input into our project design and cordially invite you to attend this Stakeholder Consultation, conducted in English and Kiswahili:

DATE: Saturday 9th April

TIME: 14:00

VENUE: Mwakidila Primary School, Mwambani Village, Tanga

Contact:

Email: enquiries@co2balance.com

Tel: +254 733607800 (Bushra Razack – Stakeholder Manager)

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v. Text of public invitations

- Owing to the more universal appeal of radio (i.e. not excluding the illiterate), we decided to rely on this form of public announcement, as opposed to a newspaper advert, to reach a broader range of stakeholders.
- We broadcast the following excerpt three times a day twice in the week before our meeting was scheduled to take place.
- First airing Saturday 1st April (3 at peak times) Breeze FM
- Second airing Wednesday 6th April (3 at peak times) Breeze FM

Radio Text

“A UK-based environmental organisation co2balance - in collaboration with Camps International - plans to develop an efficient cookstove project near Tanga.

*Our aim is to build 20000 stoves in Tanga and Muheza Wilayas
Co2balance cookstoves use around 50% less wood and emit 80% less smoke than traditional 3 stone fires; as our stoves use much less firewood, they contribute to a global reduction in CO2 emissions. On a local level, our stoves will reduce harmful smoke in people’s homes, reduce fuel costs and help preserve local woodlands by reducing the demand for firewood.*

We have arranged a meeting to gather local opinion on our project in the design phase; we will use this to shape how our project is delivered to local people. If you would like to attend this event and share your ideas, please come to:

- **Mwakidila Primary School, Mwambani Village, Tanga**
- **At 14:00, Saturday 9th April**

This meeting will be conducted in English and Kiswahili”

The text was translated into Kiswahili so that the advert could be aired; this translation was carried out by the radio station. A copy of the audio file is appended to this report.

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B. 2. Description of other consultation methods used

If individuals and/ or entities (e.g. NGOs) are unable to attend the physical meeting, please discuss other methods that were used to solicit their feedback/ comments (e.g. questionnaires, phone calls, interviews).

Co2balance emailed the minutes of the meeting and the issues raised to the organizations and NGOs unable to attend the physical meeting. They also were encouraged them to read the summary and respond with their comments and feedback.

Specific individuals/representatives within the community were assigned the role of information dispersers. They were responsible for communicating with the individuals and women unable to attend. They were provided with project summaries and the relevant information required. Co2balance will organize to call them, after the stakeholders meeting, to gather feedback, and to find out if they have been posed any questions that they are unable to respond to, and assist in answering these questions. It is planned to invite all the stakeholders again to the feedback round when it takes place.

The secretary to the council (Mtendaji wa kata), the district development committee and the community members were representatives and they played the role of spreading out the information after the meeting to other stakeholders that did not manage to attend. The secretary to the council, made phone calls to NGOs and other influential organizations that did not make it to the meeting and briefed them about our project. The village chairmen held small meetings in their various villages and informed the members that were absent about the project.

On behalf of co2balance, Camps Tanzania (our project partner) have been working within communities to gather local opinion on our project and also to distribute posters to elicit public comment. They have also been actively engaging local policy makers and educating them on carbon finance and improved cookstoves projects.

We plan to conduct a number of mini stakeholder consultations throughout the project cycle, as we believe that local comments are crucial to our project success. We also plan to employ Community Liaison Officers within the communities in which we work. These people will be responsible for translating the needs of the community (e.g. repairs & maintenance of stoves).

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SECTION C. CONSULTATION PROCESS

C. 1. Participants' in physical meeting(s)

i. List of participants

[See Toolkit 2.6.1 and Toolkit Annex J]

Please attach original participants' list (in original language) as Annex 1.

Participants list					
Date and time: 30 th November, 2010. 10:00am					
Location: Msambweni/Makongeni					
Category Code	Name of participant	Male/Female	Signature	Job Position/Organisation (if relevant)	Contact details/village
A	Hidaya Nyasio	Female	See Appendix 1	Secretary	Tangasi
A	Hennah Kombo	Female	See Appendix 1	Homemaker	Mwangombe
A	Junbe M Mbukw	Male	See Appendix 1		-
A	Dulcia Gama	Female	See Appendix 1	-	Tangasisi
A	Sudi Abdallah	Male	See Appendix 1	Chairman	Mwakidium
A	Salima S Fahdili	Female	See Appendix 1	Chairman	Masimikni
A	Mariam Mkuu	Female	See Appendix 1	Community Member	Mwamako
A	Maimuna A Shoo	Female	See Appendix 1	Community Member	Magomani
A	Mary Marandu	Female	See Appendix 1	Community Member	Mikanjuni
A	Musa Mwape	Female	See Appendix 1	Community Member	Mkambani
A	Abdi Abbu	Male	See Appendix 1	Chancellor	Tangasisi Ward
A	Ramadhani Jama	Male	See Appendix 1	Medical	Mwambani
A	Zuberi Abdi	Male	See Appendix 1	Head Teacher	Mwakidina
A	Jumbe Suta	Male	See Appendix 1	Resident	Mwakidina

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			1		
A	Zaisi Mbasha	Male	See Appendix 1	Resident	Mwakidina
A	Ally Muny Mwoka	Male	See Appendix 1	Chairman	Kiyumbitify
A	Shabani Saidi	Male	See Appendix 1	Chairman	Mchykuuni
A	Athumani Mohammed	Male	See Appendix 1	Community Member	Mkahako
A	Jim Da Asnori	Male	See Appendix 1	Chairman	Bagamoyu
A	Salim Mluru	Male	See Appendix 1	Chairman	Mwahoko
A	S Anura hattbu	Female	See Appendix 1	Community Member	Mwahako
A	Mwanshamba Nzai	Female	See Appendix 1	Community Member	Tongoni
A	Martha R. Njau	Female	See Appendix 1	Director (NGO)	Majani Mapana
A	Selina H. Ndomba	Female	See Appendix 1	Chairman	Mwamboni
A	Neema Msenga	Female	See Appendix 1	Executive	Mwahaku
A	Musa Dengo	Male	See Appendix 1	City Natural Resources Officer	Tanga
A	Omari Bushiri	Male	See Appendix 1	Village Chairman	Tongoni
A	Victor Massawe	Male	See Appendix 1	Executive Director Environmental Conservation Group	Tanga
A	Zacharia Mollely	Male	See Appendix 1	Chairman	Ngombempera n
A	Aurelia A Mui	Female	See Appendix 1	Haraga Farm Group	Neema
A	Caroline Malundo	Female	See Appendix 1	Manager, Mangrove Management	Tanga

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				Project	
A	Adam Shekiao	Male	See Appendix 1	Medufomera Group	Tanga

The meeting was attended by 32 people, 53% male and 47% female. We were pleased with this representation as it represents an equally diverse group of both male and females.

ii. Evaluation forms

[See Toolkit 2.6.1, 2.6.2 and Toolkit Annex J]

Please add at least 4-5 representative samples in English.

Please attach original evaluation forms (in original language) as Annex 2.

Name	Feedback Form 23
What is your impression of the meeting?	I was impressed by presenters' main objective – conserving the environment, through reducing cutting of trees.
What do you like about the project?	I like the idea of building stoves that will replace our 3 stove model
What do you not like about the project?	The project only focuses on rural areas. People in town use charcoal which is from trees, there should be ways of making other stoves to help reduce charcoal usage, especially in towns.
Signature	See Appendix 2

Name	Feedback Form 22
What is your impression of the meeting?	I was impressed with the participation of the local community and their contribution. The drama was educative and the stove uses very less wood and saves time in cooking. Presentation on environment was good and will lead to reduction in tree cutting

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What do you like about the project?	The project should start at least with three different locations as the area is big. People should get 2 stoves instead of the suggested 1
What do you not like about the project?	The project should not stick to one area. The pilot should be at least on 3 different villages
Signature	See appendix 2

Name	Feedback Form 28
What is your impression of the meeting?	The meeting was very good, we will have stoves that use less firewood, no smoke. Cooks food quick and economically friendly
What do you like about the project?	I like everything from the meeting. The project is very important especially to ladies as the use firewood in homes. We welcome the project, the stove and any other similar projects
What do you not like about the project?	Would request locals get 2 stoves each instead of one. Most of them cook main food and stew at the same time.
Signature	See appendix 2

Name	Feedback Form 30
What is your impression of the meeting?	I am impressed with the project as it will help in controlling global warming
What do you like about the project?	I would like the project to cover the entire tanga province.
What do you not like about the project?	The stove project education should be to all people in the area, such that after sometime everybody should be using the improved stoves
Signature	See appendix 2

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The overall consensus was that the meeting was successful and informative. Participants felt that they were made fully aware of the project and its objectives, and that their questions were answered.

C. 2. Pictures from physical meeting(s)

Mercy and Hamisi deliver the meeting



Attendees listen attentively at the start of the meeting



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An example CZ stove is unveiled



The meeting continues and questions about the CZ stove are answered



A good cross section of stakeholder attendees

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C. 3. Outcome of consultation process

i. Minutes of physical meeting(s)

MINUTES OF STAKEHOLDERS MEETING AT MWAKIDILA PRIMARY SCHOOL IN TANGA ON 9TH APRIL 2011

PRESENT

Mercy keraro	Co2balance
Jerome Kimaro	Co2balance
Hamisi Pakiah	Camps International
Abdi Abbu	Councillor (Tangasisi)
Hidaya Nyasio	Council secretary (Tangasisi)
Beatrice Mbugu	Community development officer
Samuel Mathew	TEGG (NGO)
Matunda K	WASH (NGO)
Victor Massame	Executive director tanga environment conservation. Group (NGO)
Caroline Malundo	Project manager mangrove project
Zuber Abdi	School head teacher
11 village chairmen	
Representatives from 11 villages	

ITEM 1: WELCOME AND OPENING (2.30 p.m)

Welcome by mtendaji wa kata (council secretary)

- ✓ Opening Prayer by a volunteer
- ✓ registration & partitions introductions
- ✓ the council secretary handed over the meeting to the school head teacher
- ✓ Jerome Kimaro wrote down the minutes

ITEM 2: INTRODUCTION. (2.40 p.m)

After the prayers, the Head teacher of Mwakidila primary school requested for self introduction from the co2balance staff and Camps International staff after introduction of the village chairmen. The area councillor welcomed the co2balance staff to the community and told us that they are happy with our visit and they give us all the support we need. The head teacher handed over the meeting to Hamisi of Camps International who in turn welcomed mercy.

ITEM 3: DESCRIPTION OF PROJECT (2.45 p.m)

- ✓ The audience was offered a detailed introduction to co2balance, the project scope and objectives by Mercy. she also talked of how the project addresses and alleviate the environmental consequences of the traditional cooking methods with an ultimate long term goal of combating climate change and ensuring the local have access to a clean and healthy environment.
- ✓ She also talked of the multiple benefits of our project e.g. conserving forests and creating employment.

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- ✓ She also talked of the issue of backtracking and signing of the carbon transfer forms and requested the members of the society to cooperate and let the co2balance staff to access their homesteads during the exercise.
 - ✓ She talked of the monitoring exercise (kitchen surveys and monitoring kitchen surveys) and also requested for cooperation on the same.
 - ✓ She also talked of the pilot project first before the whole project is implemented
 - ✓ She called Hamisi to give a brief summary of the contractor's role in the project who stated the roles as: feasibility studies, community mobilization, feedback collection and mobilization and local labour hire and training.
 - ✓ Mercy requested to know the problems of the three stone stove and below are the responses from volunteers:
 - 1ST WOMAN**
 - Uses too much firewood
 - Has a lot of smoke
 - 2ND WOMAN**
 - Unstable when cooking
 - Losses a lot of heat
 - Causes accidents at times when cooking because the heat is not enclosed
 - ✓ Mercy asked how long the women took to collect firewood and a volunteer answered:
 - 1ST WOMAN**
 - 3hrs
 - ✓ Then mercy summarized the problems of the three stone stove and told them how the new stove would use less firewood and save them a lot of time while collecting firewood.
 - ✓ Views & questions for clarification of the project: The floor was opened by Mercy for views & questions about project. The questions were well addressed and the community was satisfied.
 - 1ST QUESTION**
 - Will we be required to pay any amount?
 - ANSWER**
 - No, you will not pay any money
 - 2ND QUESTION**
 - How do you carry out the pilot project?
 - ANSWER**
 - The few stoves constructed are usually spread out to cover as many villages as possible
- ITEM 4: ROLE PLAY (3.30 P.m)**
 Mercy and Hamisi organized a drama group which highlighted the problems of the three stone stove and the advantages of the new stove.

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ITEM 5: HOW TO USE THE STOVE (3.40 p.m)

- ✓ Mercy explained what the stove was made of (metal plate, cylinder e.t.c) and how it worked using a sample of a stove and use of charts.
- ✓ She explained the construction of the stove in relation to wind direction
- ✓ Brief on efficiency of the stove over the three stone stove
- ✓ Life span of the stove(7yrs)

ITEM 6: SUSTAINABLE DEVELOPMENT MATRIX (4.00 p.m)

- ✓ Mercy explained to the community the sustainable development matrix with emphasis on the following:

AIR QUALITY

- Reduced smoke (carbon) in the atmosphere will make the air fresh and reduce all the problems associated with smoke.
- Overall aim of combating climate change will be met because reduced carbon emissions means reduced global warming

WATER RESOURCES

- Water resources will be conserved as less water will be used to clean cooking pots because the new stove reduces soot on cooking pots.
- By using less firewood, forests are conserved and water catchment areas.

ENVIRONMENT AND BIODIVERSITY

- By using less firewood, trees are conserved and a habitat for some organisms
- Less deforestation maintains environmental aesthetics.

LIVELIHOODS FOR THE POOR

- The new stove cuts down on time used to collect firewood and this can be invested for other productive activities.
- Less money will be used to buy firewood(economic benefits)

ITEM 7: QUESTION AND ANSWER SESSION (4.15p.m)

Question 1: which kind of firewood is to be used any or specific meant just for this stove?

Answer 1: Mercy answered that any kind of firewood would do as long as it is dry

Question 2: When will the construction begin?

Answer 2: Mercy answered: As soon as we are Authorized by the UK office to start.

Question 3: what is the response of community members in other project areas? For instance Msambweni?

Answer 3: Mercy Answered the response has been positive and people have embraced our project and are happy with it.

Question 4: can we be given more than one stove?

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Answer 4: Mercy answered that at the moment we are only allowed to give one stove per household but we will consult with senior management.

Question 5: which criteria do you use to select a place for a feasibility study?

Answer 5: Jerome and Hamisi answered that sampling is usually done and villages with similar characteristics (e.g. demographics, cooking habits) are grouped together then representatives from both sides are chosen then with a go ahead from the UK office, the study is carried out.

Question 6: Is your stove economical than the charcoal stove?

Answer 6: Mercy answered that the carbon zero stove was cheaper in the sense that it uses less firewood and hence less money to purchase firewood and firewood is cheaper than charcoal.

VOTE OF THANKS (4.30 p.m)

Having exhausted on the agenda co2balance, Mercy thanked the community for their time, patience and cooperation and handed over to Hamisi who in turn handed over to the secretary of the council.

The meeting was enjoined by a closing prayer from one village elder and the households went back to their homes.

ii. Minutes of other consultations

N/A

iii. Assessment of all comments

Stakeholder comment	Was comment taken into account (Yes/ No)?	Explanation (Why? How?)
Which kind of firewood is to be used any or specific meant just for this stove?	N	It was explained that any kind of firewood would do as long as it is dry
When will the construction begin?	N	Construction will start as soon as the head office gives the official Authorization to

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		start.
What is the response of community members in other project areas? For instance Msambweni?	N	The response has been positive and people have embraced our project and are happy with it.
Can we be given more than one stove?	N	It was explained that at the moment we are only allowed to give one stove per household but we will consult with senior management.
Which criteria do you use to select a place for a feasibility study?	N	Jerome and Hamisi answered that sampling is usually done and villages with similar characteristics (e.g. demographics, cooking habits) are grouped together then representatives from both sides are chosen then with a go ahead from the UK office, the study is carried out.
Is your stove economical than the charcoal stove?	N	It was explained that the carbon zero stove was cheaper in the sense that it uses less firewood and hence less money to purchase firewood and firewood is cheaper than charcoal

iv. Revisit sustainability assessment

Are you going to revisit the sustainable development assessment?	Yes	No
Please note that this is necessary when there are indicators scored 'negative' or if there are stakeholder comments that can't be mitigated	<input type="checkbox"/>	X

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Give reasoning behind the decision

There were no major concerns raised during the stakeholder consultation process. It is therefore not considered necessary to change the project design, as it is not necessary to incorporate any additional measure to limit or avoid negative environmental/social impacts.

As a whole the project is perceived to be positive in terms of the three categories of sustainability: Environment, society and economy.

v. Summary of alterations based on comments

If stakeholder comments have been taken into account and any aspect of the project modified, then please discuss that here.

N/A

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SECTION D. SUSTAINABLE DEVELOPMENT ASSESSMENT

D. 1. Own sustainable development assessment

i. 'Do no harm' assessment

Safeguarding principles	Description of relevance to my project	Project risks	Mitigation measure
The project respects internationally proclaimed human rights including dignity, cultural property and uniqueness of indigenous people. The project is not complicit in Human Rights abuses.	<p>The proposed project does not violate this principle.</p> <p>We will adhere to the host country's commitment to: Universal Declaration of Human Rights (UDHR)</p> <p>International Covenant on Economic, Social and Cultural Rights, Tanzania Accession 11.6.76²</p> <p>International Covenant on Civil and Political Rights Tanzania Accession 11.6.76³</p>	Low (all parties involved are traceable reputable enterprises)	The project would not violate this principle. Similar projects conducted in other countries have demonstrated that there are no violations on human rights.
The project does not involve and is not complicit in involuntary resettlement.	<p>The proposed project does not violate this principle.</p> <p>People have the right to chose whether they want the stove in accordance with Article 1 of the International Covenant on Economic, Social and Cultural Rights, Tanzania's Accession 11.6.76</p>	Low (no party involved will be impacted by this principle)	There are no reasons to think the project could violate this principle, as proven in previous similar projects undertaken in other countries.
The project does not involve and is not complicit in the alteration,	The stove will not critically alter cooking practices; it is an improved technology of the same cooking method.	Low (all parties involved will not be	There are no reasons to think the project could violate this principle, as proven in

² <http://www1.umn.edu/humanrts/research/ratification-tanzania.html>

³ <http://www1.umn.edu/humanrts/research/ratification-tanzania.html>

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damage or removal of any critical cultural heritage.	Tanzania's commitment to International Covenant on Economic, Social and Cultural Rights 11.6.76 will ensure that this principle is not violated	significantly impacted by this principle)	previous similar projects undertaken in other countries.
The project respects the employees' freedom of association and their right to collective bargaining and is not complicit in restrictions of these freedoms and rights	The nature of this project does not violate this principle. Right to Organise and Collective Bargaining Convention. Tanzania Ratified 30.1.62	Low (all parties involved will not be significantly impacted by this principle)	There are no reasons to think the project could violate this principle, as proven in previous similar projects undertaken in other countries.
The project does not involve and is not complicit in any form of forced or compulsory labour.	Possible forced or compulsory labour. However, co2balance will ensure all partners adhere to Article 8 a) of International Covenant on Economic, Social and Cultural Rights, Accession 11.6.76 ⁴	Low (as all parties involved are traceable reputable enterprises)	Manufacturing and distributing stoves involves employing local builders. Workers are formerly hired and ensured with working conditions in line to the national average.
The project does not employ and is not complicit in any form of child labour.	Possible child labour. However Tanzania is bound to the Convention on the Rights of The Child Accession 10.6.92 co2balance will ensure that all partners are compliant with rules set out.	Low (as all parties involved are traceable reputable enterprises)	Stove builders are reputable and do not make use of child labour. Proof of reputation will be delivered with the PDD (letter from all partners involved in the project)
The project does not involve and is not complicit in any form of discrimination based on	None of our project partners are involved in any discrimination	Low (all parties involved will not be	There are no reasons to think the project could violate this principle, as proven in

⁴ <http://www1.umn.edu/humanrts/research/ratification-tanzania.html>

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gender, race, religion, sexual orientation or any other basis.	<p>co2balance abides by the:</p> <p>Convention on the Elimination of All Forms of Discrimination against Women (CEDAW), Tanzania Accession 30.08.85</p> <p>International Convention on the Elimination of All Forms of Racial Discrimination; Tanzania Accession 27.10.72</p>	significantly impacted by this principle)	previous similar projects undertaken in other countries
The project provides workers with a safe and healthy work environment and is not complicit in exposing workers to unsafe or unhealthy work environments.	<p>Possible exposure to hazardous chemicals in construction phase.</p> <p>co2balance would abide by Tanzania's Occupational Health and Safety Act, 2003 (No. 5).</p> <p>Cartagena Protocol on Biosafety. Ratified 24.4.03⁵</p>	Low (as all parties involved are traceable reputable enterprises)	All employees are appropriately trained in health and safety for the construction of stoves and handling of construction products. They are not exposed to unsafe or unhealthy work environments. Proof of this will be provided with the PDD (letter from all our project partners)
The project takes a precautionary approach in regard to environmental challenges and is not complicit in practices contrary to the precautionary principle.	The project alleviates environmental challenges. It decreases unsustainable harvesting of wood from forests and the stove construction phase is conducted in a low impact manner. co2balance abides by the stipulations of the Tanzanian National Environment Management Council 2004 ⁶	Low (all parties involved will not be significantly impacted by this principle)	There are no reasons to think the project could violate this principle, as proven in previous similar projects undertaken in other countries

⁵ <http://www.cbd.int/doc/handbook/cbd-hb-07-en.pdf>

⁶ <http://www.nemctan.org/>

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<p>The project does not involve and is not complicit in significant conversion or degradation of critical natural habitats, including those that are (a) legally protected, (b) officially proposed for protection, (c) identified by authoritative sources for their high conservation value, or (d) recognized as protected by traditional local communities.</p>	<p>Tanzania is ratified to the Convention on biodiversity; Ratified 24.04.03⁷. The nature of this project does not violate this principle. The project protects natural habitats by decreasing wood fuel harvesting from local forests.</p>	<p>Low (all parties involved will not be significantly impacted by this principle)</p>	<p>There are no reasons to think the project could violate this principle, as proven in previous similar projects undertaken in other countries</p>
<p>The project does not involve and is not complicit in corruption.</p>	<p>UN Convention against Corruption Ratification and Succession 25.05.05⁸ co2balance screens project participants for corruption. We proceed on all our project through formal and transparent methods</p>	<p>Negligible</p>	<p>There are no reasons to think the project could violate this principle, as proven in previous similar projects undertaken in other countries</p>
<p>Additional relevant critical issues for my project type</p>	<p>Description of relevance to my project</p>	<p>Assessment of relevance to my project (low, medium, high)</p>	<p>Mitigation measure</p>
<p>None</p>			
<p>etc...</p>			

⁷ <http://www.cbd.int/doc/handbook/cbd-hb-07-en.pdf>

⁸ <http://www.unodc.org/unodc/en/treaties/CAC/signatories.html>

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ii. Sustainable development matrix

[See Toolkit 2.4.2 and Toolkit Annex I]

Indicator	Mitigation measure	Relevance to achieving MDG	Chosen parameter and explanation	Preliminary score
Gold Standard indicators of sustainable development	If relevant, copy mitigation measure from 'Do No Harm' assessment, and include mitigation measure used to neutralise a score of '-'	Check www.undp.org/mdg and www.mdgmonitor.org Describe how your indicator is related to local MDG goals	Defined by project developer	<u>Negative impact:</u> score '-' in case negative impact is not fully mitigated, score '0' in case impact is planned to be fully mitigated <u>No change in impact:</u> score '0' <u>Positive impact:</u> score '+'
Air quality	None required	MDG's: Promote gender equality and empower women (3), Reduce child mortality (4), Improve maternal health (5), and Ensure environmental sustainability (7). The improved stoves result in	<i>Parameters: Total suspended particulate (TSPM). Respirable suspended particulate matter (RSPM).- Measured indirectly by fuel consumption</i>	+

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		<p>lower exposure levels and times to the selected parameters during cooking. This applies particularly to women and children who are most likely to be affected by this.</p> <p>Stoves are constructed from kits, they will be provided to the contractor by co2balance. These consist of a fired clay liner, fired bricks and a cast iron pot plate. All components will be produced by a local contractor. Although this may affect national air quality, it is likely to be insignificant in relation to air pollution reduction from the improved stove use. A detailed discussion will be made as part of the leakage assessment in the PDD.</p>	<p>A reduction in non-renewable biomass fuel consumption will result in lower levels of TSPM and RSPM in the household environment.</p> <p>Investigations will be made into the practicality of monitoring brick production emissions.</p>	
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Water quality and quantity	None required	<p>MDG: Ensure environmental sustainability (7)</p> <p>The reduction in wood required for cooking can reduce unsustainable harvesting of surrounding forests, contributing to environmental sustainability.</p>	<p><i>Parameter: Water quality and quantity.</i></p> <p>It is expected that avoided deforestation will indirectly lead to reduced soil erosion and hence reduced pollution of local water courses. However, this indicator is difficult to measure, hence it scores a neutral zero</p>	0
Soil condition	None required	<p>MDG: Ensure environmental sustainability (7)</p> <p>The reduction in wood fuel required for cooking will reduce unsustainable harvesting of surrounding forests.</p>	<p><i>Parameters: Soil erosion & Organic matter content.</i></p> <p>Research by the IFAO and CIFOR found that deforestation does have a role in small floods and topsoil erosion by eliminating the buffering and soil-anchoring effects of forests.</p> <p>Therefore, unsustainable</p>	0

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			<p>harvesting can lead to deforestation and subsequently increased soil erosion. Reducing firewood usage will result in reduced soil erosion and an increase in soil organic matter. However, this indicator is difficult to measure; hence it scores a neutral zero.</p>	
Other pollutants	None required	<p>Relevant MDG: Ensure environmental sustainability (7)</p> <p>-</p>	<p><i>Parameter: none needed as score is neutral</i></p> <p>There is no evidence to suggest that the project will relate to any other pollutants.</p>	0
Biodiversity	None required	<p>MDG: Ensure environmental sustainability (7)</p> <p>37.7% or about 33,428,000 ha of Tanzania is forested, according to FAO. Of this 0.7% (240,000 ha) is classified as primary forest, the most biodiverse and carbon-dense</p>	<p><i>Parameter: Number of affected habitats.</i></p> <p>The reduction in wood consumption will reduce pressures on existing habitats, leading to increased biodiversity.</p>	0

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		<p>form of forest.</p> <p>Change in Forest Cover: Between 1990 and 2010, Tanzania lost an average of 403,350 ha or 0.97% per year. In total, between 1990 and 2010, Tanzania lost 19.4% of its forest cover, or around 8,067,000 ha.</p> <p>Tanzania has some 1898 known species of amphibians, birds, mammals and reptiles. Of these, 9.0% are endemic, meaning they exist in no other country, and 6.1% are threatened. Tanzania is home to at least 10008 species of vascular plants, of which 11.2% are endemic.</p>	<p>This indicator may however prove difficult to measure; hence it scores a neutral zero.</p>	
Quality of employment	None required	<p>MDG: End poverty and hunger (1)</p> <p>Employment and training opportunities resulting from</p>	<p><i>Parameter: Number of workshops organised, number of attendees.</i></p> <p>Local artisans will undergo a short</p>	+

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		<p>stove construction and maintenance and project monitoring will provide income to people in the area.</p>	<p>course on stove design and construction. This will equip them with valuable skills in stove construction and stove maintenance. These are all skills that will be able to use in the future to gain employment. In addition to this, our data collection training includes sections on conflict resolution, group work and effective communication. These skills will enable people to be more productive, effective and efficient in any future work.</p>	
Livelihood of the poor	None required	<p>MDG's: Eradicate extreme poverty & hunger (1), Promote gender equality and empower women (3), Reduce child mortality (4), Improve maternal health (5), Combat HIV/AIDS, malaria and other diseases (6)</p>	<p><i>Parameter: Time spent collecting wood, household expenditure on wood. - calculated from fuel wood savings.</i></p> <p>Financial savings can be calculated by comparing wood</p>	+

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		<p>The reduction in wood required for cooking will result in less expenditure on cooking fuel. This also reduces dependence on an increasingly scarce resource. Reduced smoke exposure will benefit women and children, who are most usually the ones spending long hours for wood collection and present during cooking.</p>	<p>reduction per household to the cost of wood. The reduction in wood required for cooking will result in less expenditure on cooking fuel. These savings can be used by project beneficiaries for other purposes (clothes, schooling etc...)</p> <p>Reduced smoke exposure will benefit the health of women and children, who are most usually present during cooking. Reduction in wood required for cooking will also result in a reduction of time spent collecting fuel.</p>	
Access to affordable and clean energy services	None required	<p>MDG: Eradicate extreme poverty & hunger (1)</p> <p>The reduction in wood required will allow lower expenditure on energy. The improved stoves will contribute to cleaner</p>	<p><i>Parameter: Change in volume of Traditional Fuel Consumption.</i></p> <p>Through comparing the reduction in wood per household to the cost of wood it will be possible to</p>	+

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		energy services.	calculate the savings made.	
Human and institutional capacity	None required	<p>MDG: Promote gender equality and women empowerment (3)</p> <p>Women are in charge of cooking tasks; hence this project will bring a number of benefits to the local women.</p>	<p><i>Parameter: Change in female earned income, Change in number of jobs and positions for women.</i></p> <p>Local women will be employed throughout different phases of the project primarily as data collectors and community engagement officers. This will be monitored through project employment records.</p>	+
Quantitative employment and income generation	None required	<p>MDG : Eradicate extreme poverty & hunger (1)</p> <p>The project will create jobs and generate income for those involved in stove production, distribution, installation, maintenance and project sampling.</p>	<p><i>Parameter: Income generated from employment created by the project.</i></p> <p>Approximately 35 people will be directly employed for the project. About 95% of them are local people. The roles will involve mainly data collection, data entry,</p>	+

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		Reduced expenditure on fuel will essentially increase available income for project beneficiaries.	stove construction and local mediation.	
Balance of payments and investment	None required	MDG: Develop a global partnership for development (8). It is not anticipated that the project will have any impact balance of payments and investment.	<i>Parameter: Amount of domestic investment, amount of foreign direct investment</i> This is a small scale project at the household level; therefore the indicator is not expected to revert to significant and monitorable values. However, this will be monitored as required	0
Technology transfer and technological self-reliance	None required	Eradicate extreme poverty & hunger (1), Ensure environmental sustainability (7) The project will bring the wood efficient stove technology to the area.	<i>Parameter to measure indicator: Number of participants that attend capacity building activities.</i> Educational training will be provided for those directly employed with the project.	0

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			Because this is only limited to stove builders we have given this a neutral score	
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Comments accompanying own sustainable development matrix

Lessons from previous projects have been included to ensure a continuous improvement on the quality of our projects. The series of positive indicators suggests that this project would have a significant positive effect in Tanga an Muheza Wilayas.

D. 2. Stakeholders Blind sustainable development matrix

Indicator	Mitigation measure	Relevance to achieving MDG	Chosen parameter and explanation	Preliminary score
Gold Standard indicators of sustainable development	If relevant, copy mitigation measure from 'Do No Harm' assessment, and include mitigation measure used to neutralise a score of '-'	Check www.undp.org/mdg and www.mdgmonitor.org Describe how your indicator is related to local MDG goals	Defined by project developer	<p><u>Negative impact:</u> score '-' in case negative impact is not fully mitigated, score '0' in case impact is planned to be fully mitigated</p> <p><u>No change in impact:</u> score '0'</p> <p><u>Positive impact:</u></p>

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				score '+'
Air quality	None required	<p>MDG's: Promote gender equality and empower women (3), Reduce child mortality (4), Improve maternal health (5), and Ensure environmental sustainability (7).</p> <p>The improved cook stoves result in less exposure to indoor particulate matter during cooking, particularly for women and children.</p>	<p><i>Parameters: Carbon monoxide, RSPM and TSPM – via wood consumption</i></p> <p>Reduction in wood used will reduce emissions of carbon dioxide, total suspended particulate matter and respirable suspended particulate matter.</p> <p>Stakeholders agree that direct hygiene air quality will be improved in the kitchen due to less smoke.</p>	+
Water quality and quantity	None required	<p>MDG: Environmental Sustainability (7)</p> <p>The reduction in wood required for cooking will result in less degradation of surrounding</p>	<p><i>Parameter: Water quality and quantity</i></p> <p>Reduction in wood used will improve water quality and quantity. The improvements may not be directly measurable and attributable specifically to the</p>	0

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		forests, and therefore improve water quality.	project, as it is small scale. Because this indicator is difficult to measure it scores a neutral zero.	
Soil condition	None required	<p>MDG: Environmental Sustainability (7)</p> <p>The reduction in wood required for cooking will result in less degradation of surrounding forests, and in this respect will minimise erosion</p>	<p><i>Parameter: Soil erosion</i></p> <p>Reduced soil erosion may prove difficult to measure because of the small scale nature of this project; hence this indicator scores a neutral zero. It is therefore assumed that reduced wood consumption will reduce forest removal and subsequently soil erosion.</p>	0
Other pollutants	None required	<p>MDG: Ensure Environmental Sustainability (7)</p> <p>This indicator will not significantly impact the project.</p>	<p>There are no other suggestions to think the project will related to any other pollutants</p>	0

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Biodiversity	None required	<p>MDG: Ensure Environmental Sustainability (7).</p> <p>The reduction in wood required for cooking will result in less degradation of surrounding forests, and thus improve biodiversity.</p>	<p><i>Parameter: Number of affected habitats.</i></p> <p>Stakeholders agreed that the project will have a positive impact on both flora and fauna in the area.</p> <p>However, due to the small scale of the project, increased biodiversity may be difficult to measure directly; hence this indicator scores a neutral zero. It is therefore assumed that the decrease in wood consumption will reduce pressure on existing habits.</p>	0
Quality of employment	None required	<p>MDG: End poverty & hunger (1).</p> <p>Stove construction, maintenance and monitoring would not only generate a significant amount of employment but also provide a high quality of transferable skills to persons in the area. This would prove fruitful for future</p>	<p><i>Parameter: Number of contracts/people employed through the different phases of the project, and any skills/training they will receive to enable them to perform their jobs.</i></p> <p>Stakeholders agree that transferable skills would prove fruitful for future stove</p>	+

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		stove construction projects in the region.	construction projects in the region. We have also redesigned our training courses to include lessons on effective communication, dialogue, conflict resolution and group work. Equipping people with these skills increases their confidence, ability to complete tasks and enhances productivity.	
Livelihood of the poor	None required	MDG: End poverty & hunger (1). The reduction in wood required for cooking will result in less expenditure on cooking fuel.	<i>Parameter: Expenditure on wood and time spent collecting wood, measured indirectly by fuel consumption and directly through kitchen surveys, respectively.</i> Through comparing the reduction in firewood per household to the cost of firewood it will be possible to calculate the savings made. Monitoring kitchen surveys will assess time spent collecting fuel.	+

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Access to affordable and clean energy services	None required	<p>MDG: End poverty & hunger (1).</p> <p>The reduction in wood required for cooking will result in less expenditure on cooking fuel.</p>	<p><i>Parameter: Change in volume of Traditional Fuel Consumption.</i></p> <p>Through comparing the reduction in wood per household to the cost of wood it will be possible to be calculated the savings made.</p>	+
Human and institutional capacity	None required	<p>MDG: End poverty & hunger (1).</p> <p>Increased access to training and skills through the project will generate income and opportunities to reduce poverty.</p>	<p><i>Parameter: Household income generated from employment created by the project,</i></p> <p><i>Parameter: Change in female earned income, Change in number of jobs and positions for women.</i></p> <p>New employment opportunities for both men and women will be created by the project.</p>	+
Quantitative employment and income	None required	<p>MDG: End poverty & hunger (1).</p>	<p><i>Parameter: Household income generated from employment</i></p>	0

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generation		<p>The project will create jobs and generate income for those involved in stove production, distribution, installation, maintenance and project sampling.</p> <p>Income losses because of the new stove technology</p>	<p><i>created by the project.</i></p> <p>A number of new job opportunities will be created that would generate income. However, there may be potential income losses (e.g. to fire wood sellers) because of the new stoves. Because of this, we have given this indicator a neutral score.</p>	
Balance of payments and investment	None required	<p>MDG: End poverty & hunger (1).</p> <p>This project will not have a significant impact on balance of payments and investment</p>	<p><i>Parameter: Amount of domestic investment, amount of foreign direct investment.</i></p> <p>This indicator will not be significantly impacted by the project</p>	0
Technology transfer and technological self-reliance	None required	<p>MDG: Eradicate extreme poverty & hunger (1), Ensure environmental sustainability.</p>	<p><i>Parameter to measure indicator: Number of participants that attend capacity building activities.</i></p> <p>Educational training will be provided for those directly employed with the project. Because this is only limited to</p>	0

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			stove builders we have given this a neutral score	
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Comments resulting from the stakeholders blind sustainable development matrix

The stakeholder's blind assessment exercise was tremendously positive. Many expressed their support for the project as it relates to Environmental, Economic and Social Impacts. The project has opened up new possibilities for women in an area where traditionally women have few opportunities. The project employs local women in the Data Collection Process. This puts women in a position of authority, keeps them active and involved in the community and not behind closed doors in a homestead, and equips them with the power to make decisions.

Women no longer have to spend long hours gathering fuel wood from increasing distances they can become involved in income generating activities to reduce their poverty. Eliminating/reducing the women dependency on fuel collection far from home will reduce the risk of assault and injury to women and girls.

These safety risks are often experienced when women are at their most vulnerable; alone and far from home.

Women, who are usually in charge of cooking, are most at risk of chronic respiratory problems, such as chronic obstructive pulmonary disease (COPD). Cutting down indoor air pollution will contribute to better respiratory health, in particular among young mothers spending time close to the fire after having given birth.

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Give analysis of difference between own sustainable development matrix and the one resulting from the blind exercise with stakeholders. Explain how both were consolidated.

Typically the comments received from the stakeholders were positive and support the comments from the co2balance's own sustainable development matrix. The scorings have been compared with and where neutral scoring has been recorded through either lack of comment or discussion in the meeting against an indicator co2balance have scored neutral as all non-neutral indicators are required to be monitored under the Gold Standard.

D. 3. Consolidated sustainable development matrix

[See Toolkit 2.4.2]

Indicator	Mitigation measure	Relevance to achieving MDG	Chosen parameter and explanation	Preliminary score
Gold Standard indicators of sustainable development	If relevant, copy mitigation measure from 'Do No Harm' assessment, and include mitigation measure used to neutralise a score of '-'	Check www.undp.org/mdg and www.mdgmonitor.org Describe how your indicator is related to local MDG goals	Defined by project developer	<u>Negative impact:</u> score '-' in case negative impact is not fully mitigated, score '0' in case impact is planned to be fully mitigated <u>No change in impact:</u> score '0' <u>Positive impact:</u>

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				score '+'
Air quality	None Required	<p>MDG's: Promote gender equality and empower women (3), Reduce child mortality (4), Improve maternal health (5), and Ensure environmental sustainability (7).</p> <p>The improved stoves result in lower exposure levels and times to the selected parameters during cooking. This applies particularly to women and children who are most likely to be affected by this.</p> <p>Reduced fuel consumption also leads to increased land</p>	<p><i>Parameters: Total suspended particulate (TSPM)</i> <i>Respirable suspended particulate matter (RSPM)</i></p> <p>A reduction in non-renewable biomass fuel consumption will result in lower levels of CO₂ emissions in the atmosphere and lower levels of TSPM and RSPM in the household environment.</p> <p>Parameter would also be measured through kitchen surveys by asking householders whether or not they noticed a significant change in Air Quality,</p>	+

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		<p>area cover by forest and reduced CO₂ emissions.</p> <p>Stoves are constructed from locally dug and produced clay bricks. 70% of the bricks are sun dried, however the 30% making up the firebox require use of local kiln firing facilities. Although this will produce some air pollution it is likely to be insignificant in relation to the reductions resulting from the stove use and so the indicator has been left as positive.</p>	so improving air quality.	
Water quality and quantity	None required	<p>MDG: Ensure environmental sustainability (7)</p> <p>The reduction in wood required for cooking will reduce unsustainable harvesting of surrounding</p>	<p><i>Parameter: Water quality and quantity</i></p> <p>It is expected that avoided deforestation will lead to reduced soil erosion and hence reduced pollution of local water courses. However, this indicator</p>	0

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		forests, contributing to environmental sustainability.	is difficult to measure so it scores a neutral zero.	
Soil condition	None required	<p>MDG: Ensure environmental sustainability (7)</p> <p>The reduction in wood required for cooking will reduce unsustainable harvesting of surrounding forests.</p>	<p><i>Parameter: Soil erosion and Organic matter content.</i></p> <p>The organic content of soil is a buffer against erosion. Reduced removal of wood will result in reduced soil erosion and an increase in soil organic matter. However, this indicator may prove difficult to measure and monitor so it scores a neutral zero.</p>	0
Other pollutants	None required	<p>MDG: Ensure environmental sustainability (7)</p> <p>There is no evidence to suggest that the project will be related to any other pollutants.</p>	<p><i>Parameter: none needed as score is neutral.</i></p> <p>There is no evidence to suggest that the project will relate to any other pollutants</p>	0
Biodiversity				0

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	None required	<p>MDG: Ensure environmental sustainability (7)</p> <p>It is assumed that the reduction in wood consumption will reduce pressures on existing habitats, leading to increased biodiversity.</p>	<p><i>Parameter: Number of affected habitats.</i></p> <p>Improved stoves will reduce the unsustainable harvesting of wood. Improved stoves will reduce fuel consumption as less firewood will be needed. This can indirectly lead to increased biodiversity as there will be less forest degradation. However, because this indicator is difficult to measure and monitor it scores a neutral zero.</p>	
Quality of employment	None required	<p>MDG: End poverty & hunger.</p> <p>Employment and training opportunities resulting from stove construction and maintenance and project monitoring will provide income to people in the area.</p>	<p><i>Parameter: Number of workshops organised, content and attendees. Working conditions during the project.</i></p> <p>Number of contracts/ people employed through the different phases of the project, and any skills/training they will have received to enable them to</p>	+

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			perform their jobs: We have redesigned our training courses to include lessons on effective communication, dialogue, conflict resolution and group work. Equipping people with these skills increases their confidence, ability to complete tasks and enhances productivity.	
Livelihood of the poor	None required	<p>MDG's: Eradicate extreme poverty & hunger (1), Promote gender equality and empower women (3), Reduce child mortality (4), Improve maternal health (5), Combat HIV/AIDS, malaria and other diseases (6)</p> <p>The reduction in wood required for cooking will result in less expenditure on cooking fuel. This also reduces dependence on an increasingly scarce resource. Reduced smoke exposure will</p>	<p><i>Parameter: Wood Consumption, Wood Cost and time spent for wood collection.</i></p> <p>Through comparing the reduction in wood per household to the cost of wood it will be possible to calculate financial savings made by households. The saving on time spent for wood collection will be also measured and compared to the baseline.</p>	+

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		benefit women and children, who are most usually present during cooking. And finally, reduction in wood required for cooking will result as well in time saving on cooking fuel collection.		
Access to affordable and clean energy services	None required	<p>MDG: Eradicate extreme poverty & hunger (1)</p> <p>The reduction in firewood required will result in lower expenditure on energy</p>	<p><i>Parameter: Change in volume of Traditional Fuel through wood consumption, wood cost and time spent for wood collection</i></p> <p>By measuring the direct parameters, we will prove the benefits from the project as it relates to more affordable energy (reduction in wood per household).</p>	+
Human and institutional capacity	None required	MDG: Promote gender equality and women empowerment (3).	<p><i>Parameter: Household income generated from employment created by the project,</i></p> <p><i>Parameter: Change in female</i></p>	+

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		<p>The project will bring numerous benefits to women as there are in charge of the cooking tasks</p>	<p><i>earned income, Change in number of jobs and positions for women, Women in decision making groups at the community level.</i></p> <p>There will be new employment opportunities for both men and women will be created by the project. Local women will be employed throughout different phases of the project primarily as data collectors and community engagement officers. Employment positions will be monitored through employment records.</p>	
Quantitative employment and income generation	We will seek to employ those individuals, (fuel sellers etc), that are likely to have their income affected will	<p>MDG: End poverty & hunger (1).</p> <p>The project will create jobs and generate income for</p>	<p><i>Parameter: Household income generated from employment created by the project using internal records.</i></p> <p>Wood sellers will see their</p>	0

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	<p>be employed for the duration of the project. As a result we have given this a neutral score</p>	<p>those involved in stove production, distribution, installation, maintenance and project sampling.</p>	<p>business affected as less input will be needed to cook the same food. However, a number of new job opportunities for both men and women will be created by the project. The quality and content of our new training sessions encourages participation, capacity building, personal and group development. A by-product of more confident and efficient individuals is a more efficient and productive group, community and project.</p> <p>Approximately 35 people will be directly employed for the project (95% will be locals). The roles will involve data collection, data entry, stove manufacturers and local mediators. Fuel sellers would be trained in stove construction; this would be reflected in employment records.</p>	
Balance of payments and investment	None required	MDG: Develop a global partnership for development	<i>Parameter: none needed as score is neutral.</i>	0

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		(6) It is not anticipated that the project will have any impact balance of payments and investment.	It is not anticipated that the project will have any impact balance of payments and investment.	
Technology transfer and technological self-reliance	None required	Eradicate extreme poverty & hunger (1), Ensure environmental sustainability (7) The project will bring the wood efficient stove technology to the area, as well as new skills through capacity building.	<i>Parameter to measure indicator: Number of participants that attend capacity building activities.</i> Educational training will be provided for those directly employed with the project. Because this is only limited to stove builders we have given this a neutral score.	0

Justification choices, data source and provision of references

A justification paragraph and reference source is required for each indicator, regardless of score

Air quality

A reduction in non-renewable biomass fuel consumption

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will result in lower levels of TSPM and RSPM in the household environment.

Evidence of direct relationships between improved stoves and emissions of air pollutants:

Fullerton, D.G., Bručen, N., Gordon, S.B. (2008). Indoor air pollution from biomass fuel smoke is a major health concern in the developing world. *Royal Society of Tropical Medicine and Hygiene*. (102), 843-851.

There is evidence of a direct relationship between exposure to biomass smoke and health, as published in this study by the WHO (World Health Organisation, see page 11)
http://whqlibdoc.who.int/hq/2002/WHO_SDE_OEH_02.05.pdf [Accessed 13 May, 2010]

This can be further supported by the following health impact report published by the FAO (Food and Agriculture Organisation – UN):
<http://www.fao.org/docrep/009/a0789e/a0789e09.htm> [Accessed 13 May, 2010]

In consideration of the scale of the project and the consultancy costs associated with this type of sampling it

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	<p>has been decided not to measure these air quality parameters directly but to use the amount of wood consumed as a secondary parameter for this indicator and determine whether the recipients of project technology have experienced any improvements in respiratory health through the kitchen surveys</p>
Water quality and quantity	<p>The FAO state that forestry catchment areas are safest for producing potable water, although opinion is divided as to whether forests contribute to retaining water within soil. Forests do however play a key role in regulating surface run-off. Source: http://www.fao.org/DOCREP/006/J0628E/J0628E64.htm#mid=124 [Accessed 17.5.2011]</p> <p>Due to the scale of the project it is unlikely that these improvements as a result of the project will be directly measureable and attributable to the project when the affects of other initiatives and natural environmental variability are taken into consideration. In light of this it has been decided not to measure water quality and quantity parameters directly but to use the amount of wood consumed as a secondary</p>
Soil condition	<p>Deforestation has long been implicated as a causal agent in soil erosion in Tanzania (Rapp, Berry and Temple, 1973) This idea is expounded throughout 'Land Degradation in Tanzania: Perception from the village, volumes 23-370 Dejene A. 1997.</p>

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	<p>Due to the scale of the project it is unlikely that this improvement as a result of the project will be directly measurable and attributable to the project when the affects of other initiatives and natural environmental variability are taken into consideration. It is therefore proposed to use wood consumption as a secondary parameter for this indicator.</p>
Other pollutants	<p>There is no evidence to suggest that the project will relate to any other pollutants. There is no evidence of a direct relationship between the improved stove to be used in the project and the other emissions of air pollutants beside the stated above in the air quality indicator, this is supported by a study conducted by the:</p> <p>University of Berkerley: Smith, K.R., Dutta, K., Gusain, P.P.S., Masera, O., Berrueta, V., Edwards, R., Bailis, R., Shields, K.N., . (2007). Monitoring and evaluation of improved biomass cookstove programs for indoor air quality and stove performance: conclusions from the Household Energy and Health Project. <i>Energy for Sustainable Development</i>. XI (2), 5-18.</p>
Biodiversity	<p>37.7% or about 33,428,000 ha of Tanzania is forested, according to FAO. Of this 0.7% (240,000 ha) is classified as primary forest, the most biodiverse and carbon-dense form of forest.</p> <p>Change in Forest Cover: Between 1990 and 2010, Tanzania lost an average of 403,350 ha or 0.97% per year. In total,</p>

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	<p>between 1990 and 2010, Tanzania lost 19.4% of its forest cover, or around 8,067,000 ha.</p> <p>Tanzania has some 1898 known species of amphibians, birds, mammals and reptiles. Of these, 9.0% are endemic, meaning they exist in no other country, and 6.1% are threatened. Tanzania is home to at least 10008 species of vascular plants, of which 11.2% are endemic.</p> <p>http://rainforests.mongabay.com/deforestation/2000/Tanzania.htm [Accessed 19.5.2011]</p> <p>Due to the scale of the project it is unlikely that this impact will be directly measurable and attributable to the project when the affects of other initiatives and natural environmental variability are taken into consideration. It is therefore proposed to use wood consumption as a secondary parameter for this indicator.</p>
Quality of employment	<p>Parameter to measure indicator: Number of workshops organised, content and attendees. Working conditions during the project. This indicator can be followed and measured from the internal documents that will be produced to record in detail the quality of the employment delivered.</p> <p>To compare the quality of employment to the national average see: http://www.nationmaster.com/country/tz-tanzania/lab-</p>

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	<p>labor [Accessed 17.5.11]</p>
Livelihood of the poor	<p>The reduction in wood required for cooking will result in less expenditure on cooking fuel releasing a portion of household income for other uses. Dependence on an increasingly scarce resource is also reduced. Reduced smoke exposure will benefit the health of women and children, who are most usually present during cooking. The links between improved stoves and indications of improvement on the livelihood of the poor are stated on the following report (see page 4): http://www.gtz.de/de/dokumente/gtz2010-en-carbon-markets-for-improved-stoves.pdf [Accessed 17.5.11]</p> <p>Wood cost, wood consumption and time spent on fuel collection would be monitored through questionnaires.</p>
Access to affordable and clean energy services	<p>Low income households in Tanzania spend up to 10% of their income on energy - 80% of daily energy use is for cooking and lighting in the form of wood and charcoal. A reduction in wood use for cooking on an efficient stove allows lower expenditure on energy, whilst also emitting fewer pollutants within the home. http://bie.berkeley.edu/cookstoves (See article: Disseminating efficient cookstoves in Tanzania) [Accessed 18/5/11]</p> <p>Balancing out wood supply and demand by improving the</p>

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	<p>efficiency of cooking technology can allow forests to be harvested in a more sustainable, long term and profit way for local communities.</p> <p>http://www.sustainenergyweb.eu/practicalinfo/issue-improved-cookstoves-advantages-and-challenges-spread-improved-cook-stoves/ [Accessed 18/5/11]</p> <p>Wood cost, wood consumption and time spent on fuel collection will be monitored via household questionnaires.</p>
Human and institutional capacity	<p>http://www.usaid.gov/our_work/humanitarian_assistance/disaster_assistance/sectors/files/darfur_final_summary.pdf [Accessed 18/5/11]</p>
Quantitative employment and income generation	<p>Fuel efficiency is difficult to maintain when production of improved stoves is handed over to artisans, compromising the aims of the intervention.</p> <p>http://www.hedon.info/BP29_CookstovesInEastAndCentralAfrica?bl=y</p> <p>In this project, construction is monitored directly by the project proponent, whilst employing local people in production engagement and monitoring phases. The number of employment opportunities created and their specifications will be recorded for this purpose.</p>
Balance of payments and investment	<p>It is not anticipated that the project will have any impact balance of payments and Investment. This is a small scale project at the household level, therefore the indicator scores a neutral value because it is not expected a</p>

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	significant and monitorable value.
Technology transfer and technological self-reliance	The project will bring the wood efficient stove technology to the area. This will be monitored through the number of training workshops organised and surveys on how common place similar stoves become in the project area.

References can be an academic or non-academic source, such as a university research document, a feasibility study report, EIA, relevant website, etc.

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SECTION E. DISCUSSION ON SUSTAINABILITY MONITORING PLAN

[See Toolkit 2.4.3 and 2.6.1]

co2balance has assigned specific individuals within the community the role of information dispersers. They will be responsible for communicating directly with the project beneficiaries to get the feedback from the communities every 3 months using the parameters described along this report (e.g. if they feel that beneficiaries has a better livelihood, health, etc) Also it can be posted an email in the co2balance website to make any inquiries. Discussion at the stakeholder meeting covered all of the topics described above, it was agreed that stakeholders would be able to provide qualitative information regarding the following indicators

- Air quality
- Livelihood of the poor
- Access to affordable and clean energy services.
-

Stakeholders will also be able to provide quantitative information regarding the following indicators:

- Air quality (using parameters: wood consumption and householder assessment)
- Livelihood of the poor (using parameters: wood cost, wood consumption, time spent for wood collection and householder assessment)
- Access to affordable and clean energy services (using parameters: wood cost, wood consumption,
- time spent for wood collection and householder assessment)

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SECTION F. DESCRIPTION OF THE DESIGN OF THE STAKEHOLDER FEEDBACK ROUND

For the initial feedback right after the consultation and to help improve the LSC report Co2balance assigned specific individuals within the community the role of information dispersers. They were responsible for communicating directly with the individuals and women unable to attend. We provided them with project summaries and the relevant information required. Co2balance called them a week after the stakeholders meeting to gather feedback, and to find out if they were posed any questions that they were unable to respond to, and assist them in answering these questions. The feedback we have received has been entirely positive.

For the proper stakeholder feedback round after this LSC report is approved by the Gold Standard, a copy in the local language (Swahili) of the LSC report and feedback forms will be made publicly available in hard copy in the post office, the church and in the area chief's office during the feedback round. These will be collected and returned to the project developer at the end of the SFR.

Thus, a physical stakeholder feedback round (SFR) will not be carried out; instead, the option of making the LSCR and other relevant documentation available to the stakeholders will be taken as above. All stakeholders originally invited to the initial LSC (whether they attended or not) will be invited to take part in the SFR. The SFR will commence as soon as the project design document is complete and will run for 2 months.

In order to carry out a meaningful stakeholder feedback round Co2balance will notify the Gold Standard once all documentation is available, uploaded and ready to be made publicly available. The necessary documentation (LSC report, draft PDD and the passport) will be uploaded onto the Gold Standard registry and made publicly available as well on the co2balance website with feedback mechanisms clearly explained.





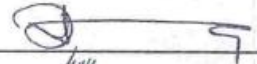


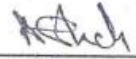


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ANNEX 1. ORIGINAL PARTICIPANTS LIST


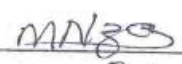
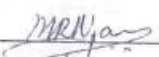


Participation List Tanga Lsc

NAME	POSITION IN COMMUNITY	VILLAGE NAME	MALE / FEMALE	SIGN
HIDAYA NYASIO	Katibu Baraza Tanga	TANGASIS	MALE	<i>[Signature]</i>
HENNAH KOMBO	MAMA WA NYUMBANI	MWANFOMBE	MALE	<i>[Signature]</i>
JUMBE M. Mbowe	Katibu B.M.Y.	Cutor Golea di	MALE	<i>[Signature]</i>
RUCIA GAMA	M/50	TANGASISI	FEMALE	<i>[Signature]</i>
SUDI ABDALLAH	M/511	M. NAWIDILA	MALE	<i>[Signature]</i>
SALIMAS FADILI	M/511	MASIMUNI	MALE	<i>[Signature]</i>
MARIAMU MKUU	MJUMBE	MWANAKO	MALE	<i>[Signature]</i>
MAIMUNA A. SHO	MJUMBE	MAROMANI	MALE	<i>[Signature]</i>
MARY MARANDU	MJUMBE	MIKANJUNI	MALE	<i>[Signature]</i>
MUSA MWAPE	MJUMBE	MKAMBANI	M/511	<i>[Signature]</i>

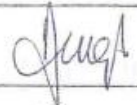

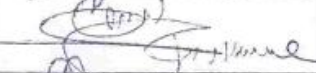
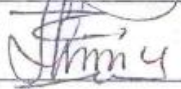
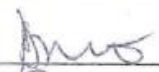


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NAME	POSITION IN COMMUNITY	VILLAGE NAME	MALE / FEMALE	SIGN
* ABDI ABBU	CHANCELOR	TANGASU WARD	MALE	
RAMADHAN JAWA	MED	MWAMBANI	"	
ZUBERU ABDI	HEAD TEACHER	MWAKIDILA	"	
JUMBE SUSA	MKAAZI	MWAKIDILA	"	
ZAIDI MRASHID	MKAAZI	MWAKIDILA	"	
ALLY MUTNY / MWASA	M/KIPI	KIVUMBIZI FY	"	
SHABANI SAIDI	M/KIPI	MCHYKUVU	"	
ATUMANI MSHARRE	RESUME	MWAKIDILA / MSIKITANI	"	
JUMBA AMUR	M/KITI	BAGAMOU	"	
SALIM MUKU	M/KITI	MWAKIDILA / KITI	"	

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	NAME	POSITION IN COMMUNITY	VILLAGE NAME	MALE / FEMALE	SIGN
1.	SANURA HATIBU	MJUMBE	MWAHAKO	FEMALE	
2.	MWANSHAMBA NZAI	MJUMBE	TONGONI	FEMALE	
3.	MARTHA R. NJAU	MKURUGENZI (NGO)	MAJANI MAPANA	FEMALE	
4.	SELINA H. NDOMBA	MWENYEKITI	MWAMBONI	FEMALE	
5.	NEEMA MSENGA	MITENZI	MWAHAKO	- - -	

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NAME	POSITION IN COMMUNITY	VILLAGE NAME	MALE / FEMALE	SIGN
Musa Dengo	City Natural Resources officer	Tanga	Male	
Omari Bushiri	Village chairman	Tonyoni Village	Male	
Victor Massawe	Executive Director Umairi Executive Env. Cons. Group - TANGA	Tanga City	Male	
Zacharia Molele	chairman	Nombempiran	Male	
Aurelia A. Mtui	Hareja Farm Group	Necma village.	Female	
CAROLINE MALUNDO	MANAGER MANGROVE MANAGEMENT PROJECT MEDUFAMILA ENVIRONMENTAL MENT GROUP MEMBER	TANGA	Female	
ADAM STEKIAO	MEDUFOMERA CROOP	TANGA	MALE	



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ANNEX 2. ORIGINAL EVALUATION FORMS

②

CO2local

FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?
The meeting is very meeting

2) What do you like about the project?
I like the project all talking

3) What do you not like about the project?
The project never to say all the do

Kindly leave your Name Syga Sub Signature Beib

Gold Standard Local Stakeholder Consultation Report

③



FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

My impression of this meeting, is
to love this project

2) What do you like about the project?

I like this project because
and I need this project to
be more than one

3) What do you not like about the project?

There is nothing.

Kindly leave your Name

Zaidi Mberu

Signature:

Gold Standard Local Stakeholder Consultation Report

④



FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

The meeting was good I am happy
I have heard what I was expecting from your
invitation letter It is so impressive. I
would like to visit you at your work site.
I hope Tanga will win the environmental award in
two years to come.

2) What do you like about the project?

The project is nice and will save the
local people special grassroots as many
people are in poverty in this ward as I have
been working with Tanga's ward. what I
would like is to add more the cooking stove
and they should collaborate with local NGOs and CBCs

3) What do you not like about the project?


The project will be very helpfully to
the surrounding area.

Aurelia A Mimi
Kindly leave your Name
Tel: 0755-813179


Signature

Gold Standard Local Stakeholder Consultation Report

⑤



FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

- Conservation of the forests as the main purpose of the project
- Poverty reduction through time saving, income reduction on energy sources.

2) What do you like about the project?


- The project will reduce CO₂ in the atmosphere - through forests conservation.
- The project will help communities to raise up income thus reduce poverty as women will have enough time to do other activities as small income generating activities.

3) What do you not like about the project?

- Few number of cookstoves which the project will start with.
- few number of wards as pilot area.


Kindly leave your Name

CAROLINE MAXUMBO

Signature 

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FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

My impression on this meeting is the awareness of Stone.

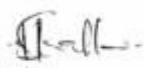
2) What do you like about the project?

- To ^{establish} have the committee which deals will be committed with the subject.
- Environment Conservation
- Participation of Community.
- Next time it is better to have refreshment
- Expansion of Project

3) What do you not like about the project?


One area of pilot.

Hafsa J. Kurellow
Kindly leave your Name


Signature

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⑦



FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

- Introducing Efficient Cook Stove Project
by CO₂ balance.com from Kenya branch

2) What do you like about the project?

- The project have to make partnership
with different NGO so as to ~~cover~~ educate
and cover large area which will
be helpful to control climatic change

3) What do you not like about the project?

→ People have to be involved much
in understanding as how can their
maintain their projects (sustainability
of their project).


→ Also the project could ^{be} hand in hand
with tree planting ^(around) their houses

Kindly leave your Name: Samuel Mathew
Mfanga

Signature: Mathew
Samuelmfanga@yahoo.com.

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FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

Good - The meeting was informative on fuel saving stoves by using less fuel wood.

2) What do you like about the project?


Environmental conservation in deforestation.
The project should include the element of tree planting in deforested area.

3) What do you not like about the project?

None

Kindly leave your Name

Victor Massawe

Signature: 

tegetumaini@gmail.com
Tegetumaini@gmail.com



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①

CO2

FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?


This one is a new to me
the is interesting to find we are using a little in cooking

2) What do you like about the project?

i. to be given at least two or three per house
ii. to be given in a few days no need of waiting
time

3) What do you not like about the project?

Don't like to contribute to this
SVP no free of charge

Kindly leave your Name SUDI ABDULLA Signature: 



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CLDGC Form

1. What was your impression of the meeting?

- discussion
- the way participants submitted their opinions.

2. What do you like about the project?

- will help us to reduce consumption of resources
- will help us to reduce waste of time

3. What do you not like about the project?

not things

Name: [Signature]

Signature: [Signature]



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②

11/07/2009

ETIOPIA

1. What was your impression of the meeting?

- The meeting impress me on -
- Local holders invited.
- Local language used.
- The way members of the meeting submit their opinion.

2) What do you like about the project?

- The cook stove reduces the burns and injuries because the carbon stove is safer.
- Reduces poverty because reduces the cost of fuel on coal since used fuel.
- Reduces soil erosion because trees prevent soil.

3) What do you not like about the project?

- Nothing.

Signature: _____

Signature: _____

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FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

- The way the meeting has been ~~was~~ organised
- The way the people has asked the questions and how the leader has answered the questions.

2) What do you like about the project?

- I like the organisation to continue with this meeting for the following period.
- I like the organisation to prepare some drinks for the members during the meetings.

3) What do you not like about the project?

- Nothing.


Kindly leave your Name

Zubair Abchi

Signature

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14



FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

The meeting was well organized and presented.


2) What do you like about the project?

The project will help in one way or another in environmental aspects.

3) What do you not like about the project?


The project has started in a very small scale regarding the Tanganyika District population.

Jumbe D. Mburungi
Kindly leave your Name


Signature

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15



FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

waweze shaji wakalimisha vizuri
Mengine kusa vitendo (maungu, zo)

* Translation: The presentation was good including
Using the Drama group.

2) What do you like about the project?

Walupe mawili zaidi kwa kila mmoja wapo
katika kata zote - itasaidia hatutatumia
niti tama kuni watuongeze na uradi
wa upandaji miti kwa kila aliye tayari
Watu wezeshe ili tuweze kupanda miti
kwa wingi kwenye vitaru na tuweze kusambazwa
kwa wenye mashamba ya kupanda miti

* Translation: on reverse.


3) What do you not like about the project?

yote wimeyapenda tunapenda mtupatre
na misaada mengine yanayohusu mazingira
ili misitu yetu iwe Salama.

* Translation: I like everything about the Project,
We would like to have other more
projects related to Conservation in order
to help Conserve our forests.

Kindly Give your Name

Selina # Ndomba

Signature 




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2)*

* Translation: - We should get 2 stoves each in all locations. This will reduce amount of firewood used. ~~They~~ The stove project should be in line with tree planting project to all stove beneficiaries.

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16



FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting? *Lugha nzuri ya wawezeshaji, Na mradi wenyewe.*

() Translation: The presentation and the project itself.*

2) What do you like about the project? *Ningependa ungeanza mradi huu mara moja ili tuko misitu. Lakini tuzingatia Wasio na uwezo zaidi. Pia koezi la upandaji miti liende pamoja na uanzishwaji mrako*

() Translation: I would like the project to start very soon such that to help conserve forests. This project should be done together with tree planting*

3) What do you not like about the project? *Nisingependa uwe wa kisiasa. bali uwe wa jamii*

() Translation: The project should not be politicised, should be entirely for the community.*

Kindly leave your Name: *Zacharia Mollbely* Signature: *Zacharia Mollbely*

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FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

MPOA MADA MIELEZA VIBURI SANA

* Translation: - The presenter was very clear and good.

2) What do you like about the project?

YUPA? EMASHIKO MGENGI ZARDI
Kwa MATUMIZI

* Translation: - The project should give us more stoves for using.

3) What do you not like about the project?

SANA

* Translation: - None

Kindly leave your Name

ALY MWINJIMWA

Signature

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16



FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

NIMEFUTIWA NA MRADI HUU KWA KUTUPATIWA
MASIKO ILI KUHEADHI MISITU.

Translation: - I am Impressed with the project as we will get
new stoves in order to help conserve forests.

2) What do you like about the project?

NINGEPENDA KIK MRADI HUU KILA KATA
NA IPATE MASIKO ILI KILA MWANACHI
APATE JIKO

Translation: - I would like the stoves to be distributed
in all locations and every member of the
community to get a stove.

3) What do you not like about the project?

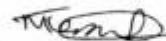
NINGEPENDA TUOHYESHWE KWA VITENDO

Translation: I would like to see the project practically
Ongoing.

Kindly leave your Name

MARI MARIANDU,

Signature





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FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

Kupān Hfohan NIMENDP-MRADI

⊛ Translation: - Impressed by the project, have
learn a lot.

2) What do you like about the project?

Vyote ni PEND somo lo

⊛ Translation: I liked all the what has been
taught today

3) What do you not like about the project?

MRPENDA TuloteWE Uhomrod

⊛ Translation: I would like to see the project
on the grounds.

MARIAMU Mkuu
Kindly leave your name

M. Mkuu
Signature.

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FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

Kupata usabianu wakuto wavya kutidondoka
Translation: - Impressed on getting to learn an alternative Cooking Stove.

2) What do you like about the project?

*nahitaji naerode leo zaidi
kama hayotuhyoa hawenzaji yote*
Translation: - We need this kind of progressive projects in the area.

3) What do you not like about the project?

*Vyote aina vipanda
hakunamoko Seyeoyote*
Translation: None

SALAMA S FASHILI
kindly leave your name


Signature



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(21)



FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

→ Nimevutiwa na Elimu nzima ya Utengenezaji wa Jiko.

⊗ Translation: The entire presentation was good.

2) What do you like about the project?

-- Elimu zaidi kwa Wananchi wanasunguka kuto ya Tangazo.

- Idadi ya Jiko ^{inajis} wongezwa kwa sababu kato hii ina watu wengi

⊗ Translation: The number of stoves should be increased such that everybody gets a stove. More awareness to the community.

3) What do you not like about the project?

- Hakuna.

⊗ Translation: None

Kindly leave your Name

NEEMA MSEGUSA

Signature

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(22)



FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

Kitichoninika katika Mkutano w
- Ushiniki wa Wajumbe wamechangia
vizuri, Mchazo wa kurigiza, ha jilco
wi zuni liyatumi's kuni kidogo wa
liuakoa Muda
Somali kuhitaji Mazingira ukataji Miti utapungua

2) What do you like about the project?

Ninachotaka kuhusu Mradi' -
Mradi ni Mzuri lakini Uauze za Mitas 3
Kwa Sababu kati hii ni kubwa Sana
Mti Mmoja angepewa Majiko 2
- Kupungua kwa ukataji wa Miti'

3) What do you not like about the project?

Nisichotaji katika Mradi'
Mradi Usiauze Mtaa Mmoja Uauze
Mitas 3 kwani kati hii ni kubwa

Beatrice Mbugha
Kindly leave your Name


Signature

Ⓢ Translation on reverse

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1)

*) Translation: - I was impressed with the participation of the local community, and their contribution. The drama was educative, and the stove uses very less wood and saves time in cooking. presentation on environment was good and will lead to reduction in tree cutting.

2)

*) Translation: - The project should start at least with three different locations as the area is big. people should get 2 stoves instead of the suggested 1.

3)

*) Translation: - The project should not stick to one area. The pilot should be at least on 3 different villages.

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FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

Kilichu in fananishiha hadaka wakidama in longyhuu la uwanzo. Shuj: la kuti, vy, kazi na Mubadilika ya hali ya hali na mwingi kijiuka yanai kuziwa ukataaji miji, dawa.

*) Translation: I was impressed by presenters main objective - Conserving the environment, through reducing cutting of trees.

2) What do you like about the project?

Kilicha kiposta in ubungu wa kutengeneza Majika Mndaka lafauhi na hoya ya jaramba ya kuchanua kuni na Mkan.

*) Translation: - I like the idea of building stoves that will replace our 3-stone model.

3) What do you not like about the project?

Kilichu in kuhasa in kionba in uwanzo, uwanzo- kama hapuna caha in mwingi kanti kanti kanti kanti, Majika hoya yata kanti kanti na in mawar'amb ayi hali. kionyonyo zakiwa ya fan kuhasa hali kanti hali mawar'amb ya miji kuni na kuhabishi. Mt: kanti kuhasa kanti.

*) Translation: On reverse

Kindly leave your Name

FARUKI SAKURU

Signature:





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3)

* The project only focuses on rural area. People in town use charcoal which is from trees, ~~they~~ there should be ways of making other stoves to help reduce charcoal usage, especially in towns.

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FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

1. KILICHONIVUTIA NI KUONA JIKO NA
MAGLEZO YA MATUMIZI YAKE.

* Translation: - I was impressed on seeing the
stove and learning about using it.

2) What do you like about the project?

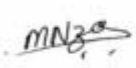
2. MRADI HUU USIISHIE KATIKA KATA
MOJA TU. UENGE KATA NYINGINE.

* Translation: The project should not focus on
one location.

3) What do you not like about the project?

3. KUWEPo NA NAUKI ZA USAFIRI
WAKATI WA KUHUBHURIA VIKAO.

* Translation: - ~~the~~ Allocation of Transport allowance
after ~~the~~ meeting

MWANSHAMBA NZAI 

Kindly leave your Name Signature

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FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

2010/11/10 IL. YETOLEWA
 NA WAWESSEHAY, A. MZURI
 NA IME WAFUNDA UJIBURI
 WALENTIN WA CID FINE KIKADU

* Translation: - The meeting was well presented
 and participants it was an eye-opener
 to the participants.

2) What do you like about the project?


NI KWAME SISHA WAWANCHI
 NI WARELWE, SIMI, HJO
 NA MUA, HJO MLOTULUKA

* Translation: - educating Community on the Stove
 Project.

3) What do you not like about the project?

~~None~~ HOKUNA

* Translation: None

Kindly leave your Name SAU, A. Signature 

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FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

Mtandao wa maoni na jiko lililomoreshwa
Utumaji wake na unafuu wake kwa
Mara kwa mara wakati wa...

⊛ Translation: - I was Impressed by the stove and it's uses. The stove is very economic and will help women in the area.

2) What do you like about the project?

Mtandao ni mzuri na tunaomba
wawize kutentembelea kwa ajili ya
kwasipabu chabeta unafuu wa utumaji
wa kuu na unafuu...

⊛ Translation: Presentation should be in every village, as the stove helps in conserving the environment.

3) What do you not like about the project?

Mtandao unachukua wakati wa kuu
mazingira yanakua watu wanakua
Mungufu sasa mzingizi kutelelela
Vigili vime na ili watu wote...

⊛ Translation: On reverse
Kindly leave your Name here: _____
Signature




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3)

* Translation: As the project educates people, I would like to request the presentation be in all villages, such that people can understand the project very well.

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(28)



FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

1) Mkutano ni mzuri umetuletwa Majiko
Ambayo yametufurahisha yanatumia kuni
Kidogo hayana Moshi yanatumia kuni
kado chakula kinaiva mara moja.
na sharamba kidogo za pesa.


2) What do you like about the project?

Tunapendekeza ya kuwa Majiko yaletwa
kwa wingi badala ya kupewa moja (1)
wananchi wapewe Majiko mawili kufatana
kupika chakula na mboja kwa mara moja

3) What do you not like about the project?

* Hakuna Arobacho sikukipenda kuwaga
Mradi yote yamekipendegesa Mkutano
ni mzuri na unamunufa kwa sisi kina
mama tunatumia kuni karibuni sana
nituletwa Majiko na Mradi mwingine pia

Kindly leave your Name: Hilaya Nyasia. S.

Signature: 

* Translation: On reverse

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2/20



FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

Kiicho univutia nikuusu hilo siko
na matumizi yake sika tumia kuni
kwa wingi

⊕ Translation: I am impressed with the stove as I
will not use more firewood again.

2) What do you like about the project?

umenivutia kwa vile nitaondoka na
utafasi wa miti napa ~~utafasi hapa~~

⊕ Translation: I am impressed as cutting of trees
will come to an end.

3) What do you not like about the project?

nahitaji haya masomo
yasiishie hapa tu kwa vile ni mazuri
na yaneripaa mucleleo

⊕ Translation: The information given should not just end
here as it has opened our eyes.

Kindly leave your Name

SANURA HASIBU

Signature



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23



FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

- Nimefarahi'stawi wa mwachizi huu kwa ajili ya majiko, yatazalika kukabidhi hii ya hewa.

*Translation: I am impressed with the project as it will help in ^{controlling} Global warming

2) What do you like about the project?

- Ningepende mwachizi huu wa Majiko Ulege Tanga mzima.

*Translation: - I would like the project to cover the entire Tanga province.

3) What do you not like about the project?

- Kutoa EU am lawa ajili ya jamii yote vijana na watu wa Cile Mbalimbali. Iki kiwerezetane Bada ya Mude watu wote watumbe Majiko sawa...

*Translation: On reverse kindly leave your Name

ADAM STEKIRO

Signature



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③

* Translation: - The ~~ed~~ Stove Project education should be to all people in the area, such that after some time everybody should be using the improved stoves.



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(3)

CO2 Goals

FEEDBACK FORM

Please take a moment to answer the following questions:


1) What was your impression of the meeting?


MSADALA
* Translation: \$ stove debate.

2) What do you like about the project?

MRIDI UWE ENDELEVU
* Translation: - The project should be progressive


3) What do you not like about the project?


Kindly leave your Name


Signature.

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(32)



FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

Maelezo mazuri kuhusu hili jiko na matumizi yake.

*) Translation: - Good Information on Stove and H's Use.

2) What do you like about the project?

Kuyengewa majiko kila mtaa na wanaoichi wake wote.


*) Translation: - The idea of stoves being built in all villages.

3) What do you not like about the project?

Nataka walimu wa kufundisha jinsi ya kutengeneza haya majiko kila mtaa na mfunzo zaidi jinsi ya matumizi ya hili jiko.


*) Translation: - I would request for stove builders trainers in all villages and training on how to use the stoves be done in all villages too.

Kindly leave your Name
EVARISTI-L KNEFA

Signature:


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(33)



FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

Discussions among the participants


2) What do you like about the project?

- Should spread over allow the country in sustainable manner.

3) What do you not like about the project?

It seems it is not sustainable project because it is a full of change. ~~That~~ The sense of ownership is not there.

Kindly leave your Name: MURANDA U.

Signature: 



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2/4



FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

EKIMU IMETOKEWA VIZURI

*) Translation: - The presentation was good.

2) What do you like about the project?

NIME HATHASIKA VIZURI, NAPANAZIYA JIKO

*) Translation: - I have learned a lot about the new stove

3) What do you not like about the project?

HAKUNA


Translation: None.

Kindly leave your Name
SHABANI SPIDI

Signature

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FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

Kikao kilikuwa kizuri na
tunavutwaa maadhezi ya
mabaliwi

* Translation: The meeting was good and the presentations
has be well done.

2) What do you like about the project?

Itabakawa pandegezo kwa
ya kupita kwa mbinu ya
kupita ma giza kutokana
Tangasisi

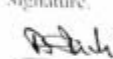
* Translation: I like the idea that education was to
Many people including some from outside
our sub-location (Tangasisi)

3) What do you not like about the project?

~~tunavutwaa~~
tunavutwaa

* Translation: - All understood.

Kindly leave your Name: Adamu Mohamed

Signature: 

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FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

Uli cho ni kutia ni Mwanji ya watu wote: Changa
na kupenda mstadi wa majiko

* Translation: - I was impressed with other participants
Comments for approving the stove project

2) What do you like about the project?

Itaombe mradi ongeze majiko mengi zaidi

* Translation: I would request the number of stoves
be increased.

3) What do you not like about the project?

Si na

* Translation: None

Kindly leave your Name

Signature

Jumwa Atubi

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CO2bal

FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

Mkutano ulikuwa kwa utia wa utia wa habari zetu na kupigana kwa utia wa kutunika maji.

* Translation: - The meeting was good with a lot of good news. Stoves will help reduce bad air.

2) What do you like about the project?

Mraji huu utakuwa ni hatua ya kudhibiti matumizi ya kuni na hivyo maita itahifadhiwa.

* Translation: - This project will be a good step in the usage of firewood and forests will be conserved.

3) What do you not like about the project?

Ni kama mraji huu unatazama kwa maji tu kuni lakini unhitaji kujua yameachwa hakiwaka kwa maji.

* Translation: - The project is only focusing on firewood not giving consideration to other projects like tree planting.

Kindly leave your Name: Omari Bushiri Signature: [Signature]

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FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

JIKO HADIO LIMELIPENZESHA
SANA HA TUKIPERIA HATA MASIKO
MATAJU KILA MIA ITAKUNA HUVIZURI

* Translation: Impressed for seeing the stove, would suggest
each community member get 3 instead
of 1 stove.

2) What do you like about the project?

HIMEPANDA PROJECT HII KUNAMENEU
HATAKIALI KUONA SEMINA ICAMA HII
HA KADAU KAUOTE KIAMEPOKI A

* Translation: I like the project, because I have
not seen a seminar like this. All
participants have approved it.

3) What do you not like about the project?


HIPANDA PROJECT HIO KUNAMENEU ICAMA
SABA HITAPUNGUZA MATUMIZI YA
KUMI MCHINI NA HINDEOMBA SEMINA
HIZI BARI ZILU NA UIGURUDISHO

* Translation: - The project will enable reduction of firewood
I would request refreshments in future.

Kindly leave your Name RUKINGAM Signature BOANA

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FEEDBACK FORM

Please take a moment to answer the following questions:

1) What was your impression of the meeting?

Kwa kupata aina nzuri ya jiko ambalo litatusaidia kwa kutunua kumi chache, kuto kupata moshi wakati wa kupika, na kupata aina jiko ambalo tunapika kwa muda mfupi.

2) What do you like about the project?

- Kupata jiko ambalo litatusaidia kwa kuongeza idadi au watakapofika kufungo jiko kufunguwa zaidi ya pair moja ili kuharakishe kuwa kwa chakula. (Stinka limesaidia wasigioroa tumashukuru sana)

- Mzungu wake unavutia na ni mzungu kwa vile kuma wasafi jikoni babala ya kusambasa majivu.

3) What do you not like about the project?

Kwa upande waona hakuna kitu ambacho sikiendi kwa vile usambazaji utakuwenda kwa awamu katika vijiji vingine ambavyo pia wanatumia kumi.

* Translation: On reverse P.T.O
Kindly leave your Name Signature
Nanthia R. Njau

* Translation: on reverse



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1)
① Translation: - Impressed for getting a good stove which will reduce amount of firewood used, no smoke, and takes less time cooking.

2)
② Translation: - Would like to thank the project for helping poor people. We would like to get more than one stove.
- The stove design ~~is~~ will maintain cleanliness in homesteads as ash can be controlled easily.

3)
③ Translation: - I like everything, provided distribution will be to all villages in stages as said.

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