



**Farmer to Farmer East Africa
Volunteer Assignment Scope of Work**

Summary Information	
Assignment code	ET20
Country	Ethiopia
Country Project	Horticulture production and sector support
Host Organization	Ethio-Wetlands and Natural Resources Association (EWNRA)
Assignment Title	Assessment of disposal methods of coffee pulps and husks and its effect on water and other resources
Assessment sites	Coffee pulping stations for three multipurpose farmers' cooperatives and private owners in Abaya district
Preferred assignment dates	October 5-31, 2014
Assignment objectives	<ol style="list-style-type: none"> 1. Assess the coffee pulps and husks disposal methods and potential risks of disposed coffee pulps and husks on human, livestock and the environment. 2. Propose feasible solutions for coffee pulp and husk disposal methods and management
Desired volunteer qualifications and experience	Expert(s) in environment sound coffee pulp and husk disposal experience coupled with pulp and husk by-products development

A. BACKGROUND

The Farmer-to-Farmer (F2F) East Africa program is a program that leverages US volunteer’s expertise to assist smallholder farmers and small scale processors in East Africa to improve their business practices through volunteer assignments conducted with host organizations. Through F2F intervention, CRS will improve the livelihoods and nutritional status of significant numbers of low income households by: i) broadening their participation in established commodity value chains as producers and service providers; ii) strengthening community resilience to shocks such as droughts that adversely affect livelihoods; and iii) preserving/enhancing natural resources upon which most rural communities depend. CRS will also increase the American public’s understanding of international development programs and foster increased cross-cultural understanding between host countries and US volunteers.

Ethiopia is the largest coffee producer in Africa and fifth in the world¹. Production of coffee has a longstanding tradition since its discovery in the forest ecosystem of the Kaffa province, considered its birthplace. *Coffea arabica*, the famous species of coffee crop, has a broad genetic diversity in Ethiopia. About 98% of the coffee in Ethiopia is produced by smallholder farmers². Being one of Ethiopia's important commodities, coffee is a major source of cash for the smallholder farmers and accounts for a significant amount of export earnings in the country. It generates about 60% of the foreign income and is the major source of employment in most rural areas, especially for women. It is estimated that the livelihoods of more than 15 million people in Ethiopia are directly or indirectly engaged in the production, processing and trading in coffee.

Abaya district is one of the geographical locations where the known organic Yirgacheffe coffee is processed through wet processing system. Some sun dry processed green coffee beans are also circulated in the markets mainly for sale locally. Abaya is one of the districts of the Borena zone of the Oromia regional states of the country. The region, Oromia, is one of the four Feed the Future (FtF) as well as Agriculture Growth Program, AGP regions of the Ethiopian government. EWNRA works with the smallholder farmers and their multipurpose farmers' cooperatives. The three cooperatives where EWNRA is implementing livelihoods diversification for coffee producers' farmers are Homa Multipurpose Farmers' Cooperative (HMFC), Kelaltu-Husa-Gola Multipurpose Farmers' Cooperative (KMFC) and Negale-Gorbitu Multipurpose Farmers' Cooperative (NMFC). Several private coffee processors and the three cooperatives have pulping machines for coffee wet processing. The coffee byproducts of the pulps and husks are being disposed by all of these pulping stations.

B. ISSUE DESCRIPTION

In the Abaya region and other coffee producing areas, the coffee value chain is facing multiple challenges. These include improper ways of coffee harvesting (picking unripe beans), handling and storage and inefficient processing activities in the pulping stations aggravated by old and non-renovated pulping machines. Improper disposal methods and management of coffee byproducts (pulps, husks, etc) and lack of research information on side effects of their contamination with water, soil and vegetation resources is also a major challenge. Others include poor post-harvest handling, inadequate and poor warehouse services, marketing and financial constraints among others. EWNRA has requested for F2F volunteer technical assistance to specifically carry out an assessment of coffee pulp and husks disposal and their effects on the environments, and make recommendations of sound waste disposal methods and development of by-products from the coffee waste.

With funding from Keurig Green Mountain, KGM, CRS is providing technical support to EWNRA in implementing a livelihoods diversification project for smallholder coffee producers in Abaya district/woreda. Coffee waste from the various coffee pulping stations is

¹ *Ethiopian Radio and Television broadcasting media, July 2014.*

² *Cousin, Tracey L. (1997). Ethiopia Coffee and Trade.*

disposed into streams, deposited along the roads and in the field. This may have negative effects on the river water and other natural resources. The communities residing adjacent to and downstream coffee washing station usually use the contaminated water for domestic use and for watering their livestock, and are unaware of any negative health and environmental impacts.

C. OBJECTIVES OF THE ASSIGNMENT

The specific objective of this volunteer assignment is to assess the effects of the disposed coffee pulps and husks, and advice on other potential interventions, possible by-products that can be developed from the coffee waste. The deliverables include a trip report with recommendations, followed by presentation to CRS's staff. The document (report) expected to feed into a project proposal to be developed to address the challenges that farmers are facing in coffee production, processing, disposal and management of coffee by-product (pulps and husks).

The scope of the assessment will cover all of the pulping stations established in Abaya district including those of the three farmers' cooperatives (HMFC, KMFC and NMFC) and private ones, which are in the operation areas of EWNRA. The assessment techniques will be determined by the volunteer coffee specialist as appropriate. S/he will also develop a checklist in consultation with the EWNRA and CRS's Ag/NRM and F2F staff. If appropriate, focused group discussions (FGDs) and any other methods can be deployed by the volunteer specialist. Method of synthesis and/or analysis will also be determined and used by the volunteer.

The immediate beneficiaries of this assignment will be the EWNRA and the CRS's livelihoods diversification for coffee producer project. However, this joint coffee project is expected to benefit at least 3000 smallholder coffee farmers with the upcoming another new coffee project in Abaya district.

Host partner contribution – EWNRA will provide the list of cooperatives and private owned pulping stations and possible list of smallholder farmers to the volunteer specialist. The host will also facilitate contacts for the volunteer during her/his preparation for the assessment, individual interviews, formation of FGDs and the likes. EWNRA will also avail key personnel to facilitate the volunteer in his/her overall works. The host will also provide the volunteer with office space and office furniture as required. The host will make vehicle available for field work and facilitate field travel.

D. ANTICIPATED OUTPUTS FROM THE ASSIGNMENT

It is anticipated that this assignment will result in the writing the assessment report, followed by a presentation for discussion. The later can help in further developing the report and validation of findings. The data and the recommendations that come out from the

exercise of this assessment is expected to contribute and feed into a new coffee project proposal development.

Some intermediate results will also be expected from the assessment exercise. These include sensitization of the need for this type of assessment, probable side effects of such disposals, and awareness for the need to design appropriate disposal mechanisms, the effect of using old machines and its possible aggravated effect relative to new/modern machines. This may also raise the awareness of the government stakeholders who are dealing with the water and other natural resources of the district. Health officers of the district will also be alerted with regard to the effect of the contaminated water on the community and the environment.

The anticipated deliverables of the volunteer should include:

- Initial presentation of his/her methodology for the assessment exercise;
- Methodological discussion with the host and CRS’ Ag/NRM and F2F staff;
- Submit draft report including recommendations and present his/her assessment result for discussion;
- Submit final report;
- Reconcile cash advance;
- Present to CRS and USAID staff;
- Conduct outreach events in the US.

E. SCHEDULE OF VOLUNTEER ACTIVITIES IN ETHIOPIA

Day	Activity
Day 1	Arrival Addis Ababa, Ethiopia. The volunteer will be met by a hotel pick person from Sor-Amba (www.sorambahoteladdis) hotel with a placard bearing “ CRS logo and volunteer name ”.
Day 2	<ul style="list-style-type: none"> • Briefing meeting at CRS office to become fully briefed on security, general orientation, logistics and itinerary of the trip. • Discuss anticipated outcomes and work plan: methodological discussion with CRS (Ag/NRM and F2F staff).
Day 3	Drive to Dilla town, 365 Kms south of Addis Ababa, where the volunteer will stay the entire assignment duration.
Day 4	Together with host organization representatives, CRS, EWNRA and volunteer, discuss the proposed work-plan and make any amendments
Day 5-7	The assessment exercise
Day 8	Rest day
Day 9-14	Continuation of the assessment exercise
Day 15	Rest day
Day 16-21	Continuation of the assessment exercise and preparation of report
Day 22-24	<ul style="list-style-type: none"> • Preliminary presentation of the assessment result and report to the host,

Day	Activity
	EWNRA <ul style="list-style-type: none"> • Conduct any remaining assessment exercise and discuss with key stakeholders • Enrichment of the report
Day 25	<ul style="list-style-type: none"> • Presentation of the assessment result and report to CRS • Enrichment of the report
Day 26	Discussion with Ag/NRM and F2F staff of CRS and final report submission
Day 27	<ul style="list-style-type: none"> • Volunteer finalizes his/her reporting and submit M&E forms to CRS F2F staff. • Complete any unaccomplished activities and depart for USA
TBD	Outreach event when back in the US.

F. DESIRABLE VOLUNTEERS SKILLS

The following are the desired qualifications and competencies:

- Coffee specialist: graduate level education and demonstrated experience in coffee byproduct management emphasizing on pulps and husks
- Practical experience with coffee wet and dry processing systems
- Knowledge and demonstrated experience in coffee value chain and/or entire coffee business activities.
- Demonstrated experience in field assessment, coffee research analysis,
- Proven skills and experiences on smallholder coffee farming, processing etc.
- Experience and enthusiasm in farmers' organizations, community based organizations (CBOs), etc.

G. ACCOMMODATION AND OTHER IN-COUNTRY LOGISTICS

- Before travelling to the host partner at the assignment place (Abaya district), the volunteer will stay in Addis Ababa at one of the CRS's client hotels, Sor-Amba hotel (www.sorambahoteladdis) or other hotels that will be booked before arrival dates. In Addis Ababa, the hotel usually has rooms paid together with services such as airport pick and drop, breakfast, wireless internet, etc. The hotel or CRS will arrange a vehicle for short travel from the hotel to CRS and vice versa in Addis Ababa.
- All required materials will be prepared ahead of time and will be provided to the volunteer. Any other required logistics and facilities can also be requested by the volunteer during her/his stay in Addis Ababa.
- CRS will provide vehicle and accompany the volunteer to the place of assignment.
- During her/his stay in the assignment site, the volunteer will be booked in a hotel in Dilla town, which is 8 km from Abaya capital (Guangua town). CRS Ethiopia will pay for hotel accommodations and CRS HQ will provide the volunteer with per diem advance to provide meals. The volunteer will liquidate all advances received in Ethiopia before departing from Ethiopia. For more information, please refer to country information that

will be provided.

H. RECOMMENDED ASSIGNMENT PREPARATIONS

- Prior to travel, the volunteer will be advised to prepare necessary training and demonstrating aids and written handouts. Softcopies of the handouts and any other paper materials can be printed for immediate use the CRS office at the request by the volunteer.
- If the volunteer requires use of simple training aids like flip charts, markers, masking tapes, etc, s/he should make the request and collect from either office at Addis Ababa prior to travel to the assignment place.
- Translation of handouts to local languages can be done in the locality of the assignment, if shortly required. Depending on the meeting places, the volunteer may use a laptop and projector for power point presentations.

I. KEY CONTACTS

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