

**GTZ SUN Energy Project: Mirte Improved Biomass Injera Stoves Impact Assessment**

**Household Consumers Survey Questionnaire**

**1. Identification:**

- 1.1. Name of Head of the Household: \_\_\_\_\_  
1.2. Name of Respondent: \_\_\_\_\_  
1.3. Respondent's Relationship to HHH \_\_\_\_\_  
1.4. Region: \_\_\_\_\_  
1.5. Name of Woreda/Town: \_\_\_\_\_  
1.6. Name of Kebele: 1.6.1 Urban \_\_\_\_\_ 1.6.2 Rural \_\_\_\_\_  
1.7. House Number (if urban): \_\_\_\_\_  
1.8. Name of Enumerator: \_\_\_\_\_  
1.9. Date: \_\_\_\_\_

**2. Demographic/Socio-economic Characteristics of Heads of Households:**

- 2.1. Sex of the Head of Household  
2.1.1. Male /\_\_\_\_\_/   
2.1.2. Female /\_\_\_\_\_/
- 2.2. Age of the Head of the Household: \_\_\_\_\_ (write age in years)
- 2.3. Level of education of the HHH  
2.3.1. No formal education /\_\_\_\_\_/   
2.3.2. Traditional education or can read & write /\_\_\_\_\_/   
2.3.3. Primary School (Grade 1 to 6) /\_\_\_\_\_/   
2.3.4. Junior Secondary (Grade 7 & 8) /\_\_\_\_\_/   
2.3.5. Senior Secondary (Grade 9 to 12) /\_\_\_\_\_/   
2.3.6. Certificate or Diploma /\_\_\_\_\_/   
2.3.7. First University Degree /\_\_\_\_\_/
- 2.4. Marital Status of the HHH  
2.4.1. Single /\_\_\_\_\_/   
2.4.2. Married /\_\_\_\_\_/   
2.4.3. Divorced or separated /\_\_\_\_\_/   
2.4.4. Widowed /\_\_\_\_\_/   
2.4.5. Other (specify) \_\_\_\_\_
- 2.5. Number of family members living in the household permanently  
2.5.1. Children under five years \_\_\_\_\_ (write number)   
2.5.2. Children between five and 15 years \_\_\_\_\_ (write number)   
2.5.3. Adults over 15 years \_\_\_\_\_ (write number)
- 2.6. Primary occupation of HHH:

<u>Types of Occupation</u>	<u>Qualitative Ranking</u>		
	High	Medium	Low
2.6.1. Civil Servant (Mgt/clerical)	/____/	/____/	/____/
2.6.2. Business/Exec/Owner	/____/	/____/	/____/
2.6.3. Trader/Merchant/Retailer	/____/	/____/	/____/
2.6.4. Technician (skilled/unskilled)	/____/	/____/	/____/
2.6.5. Farmer (number of hectares)	_____ (hectares)		
2.6.6. Daily Laborer	_____ indicate using (√) sign		
2.6.7. Pensioner	_____ indicate using (√) sign		
2.6.8. Unemployed	_____ indicate using (√) sign		
2.6.9. Other (specify)	_____		

2.7. Major sources and amount of household income

<u>Sources</u>	<u>Amount (Etb)</u>	<u>Period (Month/year)</u>
2.7.1. HHH income	_____	_____
2.7.2. Other members' contribution	_____	_____
2.7.3. Remittance	_____	_____
2.7.4. Pension	_____	_____
2.7.5. Farming (mixed)	_____	_____
2.7.6. Other (specify)	_____	

**3. Household Stove Utilization and Impacts:**

3.1. Which one(s) of the following stoves were you using for Injera baking before you had the Mirte? (more than one answer is possible)

- 3.1.1. Openfire /\_\_\_\_/
- 3.1.2. Traditional Enclosed /\_\_\_\_/
- 3.1.3. Electric Mitad /\_\_\_\_/
- 3.1.4. Other /\_\_\_\_/

3.2. Where do you usually bake Injera?

- 3.2.1. Living room /\_\_\_\_/
- 3.2.2. Separate kitchen /\_\_\_\_/
- 3.2.3. Shared Kitchen /\_\_\_\_/
- 3.2.4. Outside (open air) /\_\_\_\_/
- 3.2.5. Other (specify) \_\_\_\_\_

3.3. Do you bake Injera for commercial purposes in your household?

- 3.3.1. Yes /\_\_\_\_/
- 3.3.2. No /\_\_\_\_/

3.4. Are you currently using the Mirte stove for Injera baking?

- 3.4.1. Yes /\_\_\_\_/
- 3.4.2. No /\_\_\_\_/

3.5. If yes to '3.4' above, how regularly are using the Mirte for Injera baking?

- 3.5.1. Always /\_\_\_\_\_/
- 3.5.2. Most of the times /\_\_\_\_\_/
- 3.5.3. Sometimes /\_\_\_\_\_/
- 3.5.4. Occasionally /\_\_\_\_\_/

3.6. How long have you been using your Mirte stove for Injera baking? \_\_\_\_\_ (Number of years)

3.7. Have you ever made the following changes on your Mirte stove?

- 3.7.1. Repair/maintenance/plastering Yes /\_\_\_\_\_/ No /\_\_\_\_\_/
- 3.7.2. Replaced section(s) Yes /\_\_\_\_\_/ section \_\_\_\_\_ No /\_\_\_\_\_/
- 3.7.3. Replaced the whole stove Yes /\_\_\_\_\_/when \_\_\_\_\_ No /\_\_\_\_\_/

3.8. How did you obtain your Mirte stove?

- 3.8.1. Purchased /\_\_\_\_\_/
- 3.8.2. Free (gift) /\_\_\_\_\_/

3.9. If your Mirte was purchased, please tell me the mode of payment

- 3.9.1. Cash /\_\_\_\_\_/
- 3.9.2. Credit /\_\_\_\_\_/
- 3.9.3. Coupon /\_\_\_\_\_/

3.10. If you have purchased your Mirte, please tell me amount paid and year stove was purchased.

- 3.10.1. Amount paid \_\_\_\_\_ (Eth. Birr)
- 3.10.2. Year of purchase \_\_\_\_\_ (Eth. Calendar)

3.11. Who installed the Mirte stove for you?

- 3.11.1. Producer /\_\_\_\_\_/
- 3.11.2. Installer /\_\_\_\_\_/
- 3.11.3. Myself /\_\_\_\_\_/
- 3.11.4. Other (specify) \_\_\_\_\_

3.12. What do you think is the most important feature of the Mirte stove that convinced you most to purchase the stove? \_\_\_\_\_ (one answer only)

3.13. Please tell me three most important advantages of the Mirte stove over your previous stove for Injera baking (write in order of importance)

- 3.13.1. \_\_\_\_\_
- 3.13.2. \_\_\_\_\_
- 3.13.3. \_\_\_\_\_

3.14. Do you believe that the Mirte stove has actually saved fuel for your household?

- 3.14.1. Yes /\_\_\_\_\_/
- 3.14.2. No /\_\_\_\_\_/

- 3.15. If yes, to (3.14) above, please tell me how much fuel you think the Mirte stove has saved for your household.
- 3.15.1. More than half /\_\_\_\_\_/
- 3.15.2. About a half /\_\_\_\_\_/
- 3.15.3. About a third /\_\_\_\_\_/
- 3.15.4. About a quarter /\_\_\_\_\_/
- 3.15.5. Less than a quarter /\_\_\_\_\_/
- 3.15.6. I can't tell /\_\_\_\_\_/

- 3.16. Please answer the following questions as accurately and honestly as possible by comparing the Mirte with a stove you have had and used before

<u>Features of a stove</u>	<u>Comparison</u>		
	Better	Same	Worse
3.16.1. Fuel consumption (less/same/more)	/_____/	/_____/	/_____/
3.16.2. Smoke (in-door air quality)	/_____/	/_____/	/_____/
3.16.3. Health (cooks protected from heat)	/_____/	/_____/	/_____/
3.16.4. Safety (fire hazard, accidental burns)	/_____/	/_____/	/_____/
3.16.5. Speed of cooking	/_____/	/_____/	/_____/
3.16.6. Convenience/ease of use	/_____/	/_____/	/_____/
3.16.7. Cleanliness (ash does not spread)	/_____/	/_____/	/_____/
3.16.8. Taste of food cooked	/_____/	/_____/	/_____/
3.16.9. Aesthetics	/_____/	/_____/	/_____/
3.16.10. Other (specify) _____	/_____/	/_____/	/_____/

- 3.17. If the answer to (3.16.1) above is affirmative, please ask the following questions.

3.17.1. Please tell me how much money you think you have saved due to the Mirt stove per month? \_\_\_\_\_(Etb per month)

3.17.2. Please tell me what purpose you have used the saving for primarily (one primary purpose only)

\_\_\_\_\_

Note for Enumerators: If the household is rural and or freely collects firewood in stead of purchasing, then the following two question.

3.17.3. How many hours (that otherwise would have been spent on collecting firewood) do you think you have saved per week due to the Mirt stove?

\_\_\_\_\_ (hours per week)

3.17.4. Please tell me for what purpose you have used the time for primarily (one primary purpose only) \_\_\_\_\_

- 3.18. If responses to (3.16.2, or 3.16.3, or 3.16.4) above are affirmative, please explain to me how the improvement in your or your children's health has helped you and your family members.
- \_\_\_\_\_

3.19. In your opinion, what are three most important beneficial impacts that the Mirte stove has had on you and your family? (write 3 answers utmost in order of importance)

- 3.19.1. First important impact \_\_\_\_\_
- 3.19.2. Second important impact \_\_\_\_\_
- 3.19.3. Third important impact \_\_\_\_\_

**4. Impacts of Promotion Tools and Marketing Techniques:**

4.1. How did you first learn about the Mirte stove?

- 4.1.1. Commercial Ads /\_\_\_\_\_/ 4.1.1.1 Specify \_\_\_\_\_
- 4.1.2. Neighbors /\_\_\_\_\_/
- 4.1.3. Relatives/Friends /\_\_\_\_\_/
- 4.1.4. Stove Producers /\_\_\_\_\_/
- 4.1.5. Extension workers /\_\_\_\_\_/
- 4.1.6. Other (Specify) \_\_\_\_\_

4.2. Please tell me what you think/know/heard/seen/feel about the following promotion tools used to promote the Mirte stoves in your area.

Promotion Tool	Heard/Viewed/Seen/Read (Yes/No)	Impressed (Yes/No)	Decided to purchase (Yes/No)
4.2.1 Posters	_____	_____	_____
4.2.2 Leaflets	_____	_____	_____
4.2.3 TV Animated	_____	_____	_____
4.2.4 TV Non-animated	_____	_____	_____
4.2.5 TV Drama	_____	_____	_____
4.2.6 TV Program	_____	_____	_____
4.2.7 Radio Clips	_____	_____	_____
4.2.8 Radio Program	_____	_____	_____
4.2.9 Billboards	_____	_____	_____
4.2.10 Signboards	_____	_____	_____
4.2.11 Stove Demos	_____	_____	_____
4.2.12 Bazaar	_____	_____	_____
4.2.13 Bulletin – Exh	_____	_____	_____
4.2.14 Bulletin – Grad	_____	_____	_____
4.2.15 Newspapers	_____	_____	_____
4.2.16 Bus Advert	_____	_____	_____
4.2.17 Matches	_____	_____	_____
4.2.18 Stage Drama	_____	_____	_____
4.2.19 Subsidy Coupon	_____	_____	_____

4.3. Of all Mirte stoves promotion tools you have known so far tell me three most important ones that you think have influenced consumers to make a purchase decision (write in order of importance)

- 4.3.1. First \_\_\_\_\_
- 4.3.2. Second \_\_\_\_\_
- 4.3.3. Third \_\_\_\_\_

4.4. How many people in your area do you think are aware of the availability and advantages of the Mirte stoves?

- 4.4.1. Aware of availability:
  - 4.4.1.1.All /\_\_\_\_\_/
  - 4.4.1.2.Most people /\_\_\_\_\_/
  - 4.4.1.3.Many people /\_\_\_\_\_/
  - 4.4.1.4.Very few people /\_\_\_\_\_/

- 4.4.2. Aware of advantages:
  - 4.4.2.1.All /\_\_\_\_\_/
  - 4.4.2.2.Most people /\_\_\_\_\_/
  - 4.4.2.3.Many people /\_\_\_\_\_/
  - 4.4.2.4.Very few people /\_\_\_\_\_/

4.5. If you like your Mirte stove, would you recommend it for your friends and relatives?

- 4.5.1. Yes /\_\_\_\_\_/
- 4.5.2. No /\_\_\_\_\_/

4.6. If yes to (4.5) above, what is the most important feature that you tell to your friends and relatives to convince them to have one?

\_\_\_\_\_

4.7. In your opinion, what do you think should be done to reach and convince more households in your area to purchase and use the Mirte stoves?

\_\_\_\_\_

4.8. Comments, suggestions, observations:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_