

LMCP - Household Survey

Kakamega pilot

March 2021

ENUMERATOR and SUPERVISOR	
1. What is the name of the enumerator number?	<i>Choose from list</i>
2. What is the name of the supervisor?	<i>Choose from list</i>

A. Identifying information

A.1 FINDING RESPONDENT	
A1. Please enter transformer ID provided in the checklist	<i>List of transformers with names</i>
A2. County	<i>Prefilled (display)</i>
A3. Sub-county	<i>Prefilled (display)</i>
A4. Transformer name	<i>Prefilled (display)</i>
A5. GPS coordinates of transformer	<i>Prefilled (display)</i>
A6. Is the information displayed correct?	1. Yes

	2. No → <i>go back to A1</i>
A7. Household ID (from checklist)	(choose from list) 1. HH_1 ... 2. HH_62
A8. Do the GPS coordinates provided indicate the location of a house in which people live?	1. Yes 2. No → A9
A8a. If yes, please describe where the GPS point falls	1. Point falls on a kitchen/store/cowshed next to an inhabited house. 2. Point falls within a compound of an inhabited house. 3. Point falls exactly on top of an inhabited house. → A11
A9. What structure do the GPS coordinates indicate? (if A8=2)	1. There is no house/structure. 2. House is not inhabited. 3. Structure is occupied by a business/school/clinic, etc. → A14 88. Other (specify)
A10. Please specify other	→ A14
A11. Is there a respondent available? (must be over 18)	1. Yes 2. No → A14
A.2 CONSENT PROCEDURE	
<i>Interviewer: please read the consent script to potential respondent</i>	
<p>The African Development Bank (AfDB) funded the Last Mile Connectivity Project (LMCP) of Kenya Power and Lighting Company (KPLC) between 2015-2020. Several households and businesses around this village/area were beneficiaries of this project. AfDB and KPLC are interested in establishing the impact electrification has had on the households that were connected through the program in this village as</p>	

well as the status of households that live close to the project area and are yet to receive an electricity connection.

EED Advisory has been contracted by AfDB – and with permission from KPLC, the County Government's Office, and local administration – to conduct a structured interview with you, to evaluate the impact of the recently completed 5-year LMCP. I will take you through a survey that will take approximately 50 minutes. I will ask a range of questions about how the LMCP has impacted you; the overall well-being of the members of the household, health, education, income, household businesses and, household incomes and revenues among others.

The information collected here will be handled with utmost confidentiality by EED Advisory and by the AfDB and will be used only for the purposes of this project. Your data will be securely transmitted and stored. Reports and academic papers generated from this study will not contain personal information such as your phone number, name, or address. Any personally identifiable information you provide such as, your name, your address, your telephone number will be replaced with artificial identifiers. Additionally, direct quotes you provide will be included in the final report or academic papers only if you issue your consent.

You don't have to agree to take part; you can ask any questions you want before or throughout the interview; you can also withdraw at any stage without giving a reason. If you choose to withdraw during the interview, any information that has already been collected will be irreversibly deleted. EED may want to re-contact you to clarify information you provide during the interview.

Based on this information;

- Do you give your permission for me to interview you?
- Do you consent for EED Advisory to re-contact you to clarify information?
- Do you consent for direct quotes from our conversation/interview to be included in the final report?

(If the respondent agrees with everything, the interview can start)

A12. Do you agree to participate in this research?	1. Yes → A14 2. No
A13. <i>Why not?</i>	_____(open ended)
A14. <i>Please record the GPS coordinates as close as possible to the point provided</i>	_____GPS (A8=2 or A11=2 or A12=2 → end survey)

A.3 RESPONDENT

A15. Name of respondent	
A16. Gender of respondent	1. Female 2. Male
A17. Respondent's age <i>(must be over 18)</i>	1. <1 2. 1-17 3. 18-19 4. 20-24 5. 25-29 6. 30-34 7. 35-39 8. 40-49 9. 50-59 10. 60-69 11. 70-79 12. >=80 77. Refused to answer 99. Don't know
A18. Relationship with household head <i>A household is a group of people who eat and sleep together for at least 7 months a year OR manage household finances together. (e.g. if the husband lives in Nairobi and sends money regularly to support wife and children he is part of the household).</i>	1. Household head 2. Spouse 3. Son/daughter 4. Son/daughter in law 5. Brother/Sister 6. Father/Mother 7. Brother/Sister-in-law 8. Father/Mother-in-law 9. Grandfather/Mother 10. Grandchild 11. Niece/nephew 12. Other relative 13. Servant/Servant's relative 14. Other non-relative 88. Other (specify) 77. Refused to answer 99. Don't know
A19. Please specify other	
A20. Respondent's phone number <i>(for follow up purpose)</i> <i>(if they don't have please ask for the phone number of another household member or neighbor)</i>	_____ 0000000000 refused to give
A21a is this number the respondent's phone number?	1. Yes 2. No

<p>A21. Name of household head</p> <p><i>(ask if A19 != 1, respondent is not household head)</i></p>	
<p>A22. Gender of household head</p> <p><i>(ask if A19 != 1, respondent is not household head)</i></p>	<p>1. Female</p> <p>2. Male</p>
<p>A23. Age of household head</p> <p><i>(ask if A19 != 1, respondent is not household head)</i></p>	<p>1. <1</p> <p>2. 1-17</p> <p>3. 18-19</p> <p>4. 20-24</p> <p>5. 25-29</p> <p>6. 30-34</p> <p>7. 35-39</p> <p>8. 40-49</p> <p>9. 50-59</p> <p>10. 60-69</p> <p>11. 70-79</p> <p>12. >=80</p> <p>77. Refused to answer</p> <p>99. Don't know</p>
<p>A24. Household head's phone number <i>(for follow up purpose)</i></p> <p><i>(ask if A19 != 1, respondent is not household head)</i></p>	<p>_____</p> <p>8888888888 don't have</p> <p>0000000000 refused to give</p>

B. Dwelling

B.1 VISIBLE CHARACTERISTICS	
<i>DO NOT READ: answer the following questions by observing the compound and the house</i>	
<p>B1. Type of dwelling</p>	<p>1. House in a family compound</p> <p>2. House in a "ploti"</p> <p>3. Single house</p> <p>4. Apartment</p> <p>88. Other (specify)</p>

B1a Please specify other	
B2. How many houses are there in the compound? (ask if B1=1)	_____
B3. Is the respondent's house connected to the KPLC grid?	1. Yes 2. No
B4. Was the respondent connected through the LMCP (i.e., can you see the meter box on top of the pole to which the house is connected)? (relevant if B3=1)	1. Yes 2. No
B5. Is any house in the compound connected to the KPLC grid? (ask if B1=1 (family compound) & B3=2 (house not connected))	1. Yes 2. No → B7
B6. Are other houses in the compound connected to the KPLC grid through the LMCP (i.e. can you see the meter box on top of the pole to which they are connected)? (ask if B1=1 (family compound) & B5=1 (other houses connected))	1. Yes 2. No
B7. What is the predominant material of the exterior walls ?	1. Bricks 2. Mud/cow dung 3. Wood 4. Iron sheets 5. Blocks 88. Other (specify)
B8. Please specify other.	
B9. What is the predominant material in the roof ?	1. Iron sheets 2. Tiling 3. Grass 4. Mud (e.g., manyattas) 88. Other (specify)
B10. Please specify other.	

B.2 OTHER CHARACTERISTICS

<p>B0. How many people live in this household?</p> <p><i>A household is a group of people who eat and sleep together for at least 7 months a year OR manage household finances together. (e.g., if the husband lives in Nairobi and sends money regularly to support wife and children he is part of the household - Children in boarding school should also be included).</i></p>	
<p>Read: Now I will ask you the name of each member of the household</p>	
<p>(repeat for each household member)</p> <p>What is his or her name?</p> <p><i>Record the name of the respondent first and the household head second (if different from the respondent)</i></p>	
<p><i>READ: Now I would like to ask you some questions about the house in which the household lives now and as well as the house in which the household lived in March 2016. If the household didn't exist in March 2016 think about the household in which you (respondent) lives in March 2016</i></p>	
<p>B11. Where did this household live in March 2016?</p>	<p>1. Same house 2. Different house in same compound 3. Different compound in same village 4. Outside the village 66. Household did not exist in March 2016 77. Refused to answer 99. Don't know</p>
<p>B12. What was the reason for moving?</p> <p><i>Do not read option and mark all that apply</i> (ask if B11>2 & B11<66)</p>	<p>1. Work/business needs 2. Access to electricity/Access to other services 3. Family/personal reasons 77. Refused to answer 99. Don't know 88. Other (specify)</p>
<p>B13. Please specify other</p>	

B14. How long has the household been living in this location? (years)	<p>_____ years</p> <p>-77. Refused to answer</p> <p>-99. Don't know</p>
B15. Does the household own or rent this house?	<p>1. Own</p> <p>2. Rent</p> <p>3. Company owned</p> <p>4. Government owned</p> <p>77. Refused to answer</p> <p>99. Don't know</p> <p>88. Other (specify)</p>
B16. Please specify other	
B17. How many rooms does your house have? (excluding bathroom and kitchen)	<p>_____</p> <p>-77. Refused to answer</p> <p>-99. Don't know</p>
B18. What is the predominant material of the floor of your house now ?	<p>1. Mud/sand (e.g mayattas)</p> <p>2. Grass</p> <p>3. Cement</p> <p>4. Tiles</p> <p>5. Iron sheets</p> <p>77. Refused to answer</p> <p>99. Don't know</p> <p>88. Other (specify)</p>
B19. Please specify other	
B20. How many minutes does it take you to walk to and from your household to the nearest source of drinking water? (Number of minutes)	<p>_____</p> <p>-77. Refused to answer</p> <p>-99. Don't know</p>
B21. Does the house have electrical wiring?	<p>1. Yes</p> <p>2. No → B22</p> <p>77. Refused to answer</p> <p>99. Don't know</p>
B22. Is the wiring certified by an authorized engineer?	<p>1. Yes</p> <p>2. No</p> <p>3. I don't know what it means</p> <p>77. Refused to answer</p>

	99. Don't know
B23. Why does the house NOT have electrical wiring?	1. Too expensive 2. No need 3. Don't know how to do it 4. I want to but not available locally 5. Not yet, but planning to 88. Other (specify) 77. Refused to answer 99. Don't know
B24. Please specify other	
B25. Which of these assets does the household currently own? (read options and select all that apply)	1. Cattle 2. Donkeys 3. Sheep/goats 4. Pigs 5. Bicycle 6. Motorcycle 7. Car 8. Tractor (motorized) 66. None of these 77. Refuse to answer 99. Don't know
B25. (i) How many of these [asset types] does the household currently own? (ask this question for each asset type i chosen in question B25)	_____ -77. Refused to answer -99. Don't know
<p>Enumerator please read: now I would like to ask you some question about the house in which the household lived in March 2016</p> <p>Remember: if the household did not exist in March 2016, the following questions should be referred to the house in which the respondent lived in March 2016</p>	
B26. Where did the respondent live in March 2016? (ask if B11=66)	1. Same house 2. Different house in same compound 3. Different compound in same village 4. Outside the village 77. Refused to answer 99. Don't know

<p>B27. How many rooms does your house have in March 2016? (excluding bathroom and kitchen)</p>	<p>_____</p> <p>-77. Refused to answer -99. Don't know</p>
<p>B28. What was the predominant material of the exterior walls of your house in March 2016?</p>	<p>1. Bricks 2. Mud/cow dung 3. Wood 4. Iron sheets 5. Blocks 77. Refused to answer 99. Don't know 88. Other (specify)</p>
<p>B29. Please specify other</p>	
<p>B30. What was the predominant material in the roof of your house in March 2016?</p>	<p>5. Iron sheets 6. Tiling 7. Grass 8. Mud (e.g. manyattas) 77. Refused to answer 99. Don't know 88. Other (specify)</p>
<p>B31. Please specify other</p>	
<p>B32. What was the predominant material in the floor of your house in March 2016?</p>	<p>1. Mud/sand (e.g mayattas) 2. Grass 3. Cement 4. Tiles 5. Iron sheets 6. Cow dung 77. Refused to answer 99. Don't know 88. Other (specify)</p>
<p>B33. Please specify other</p>	
<p>B34. How many minutes did it take you to walk from your household to the nearest source of drinking water in March 2016? (<i>Number of minutes</i>)</p>	<p>_____</p> <p>-77. Refused to answer -99. Don't know</p>

<p>B35. Which of these assets did the household own in March 2016? <i>(read options and select all that apply)</i></p>	<ol style="list-style-type: none"> 1. Cattle 2. Donkeys 3. Sheep/goats 4. Pigs 5. Bicycle 6. Motorcycle 7. Car 8. Tractor (motorized) <p>66. None of these 77. Refuse to answer 99. Don't know</p>
<p>B35.i How many of these <i>[asset type]</i> did the household own in March 2016? <i>(ask this question for each asset type i chosen in question B34)</i></p>	<p>_____</p> <p>-77. Refused to answer -99. Don't know</p>

C. Energy use

<p><i>READ: Now I am going to ask you some questions about household use and expenditures on energy and different household goods you might own that use energy. Please include anything used by the household or home based household businesses and farm</i></p>	
<p>C.1 GRID ELECTRICITY</p>	
<p>C1. Is your house directly connected to the KPLC grid, do you have access to electricity?</p> <p>(if the household is connected to electricity through a neighbor, please mark yes)</p>	<ol style="list-style-type: none"> 1. Yes, with electricity 2. Yes, but no electricity 3. No → C7
<p>C2. When did your house first get connected to the KPLC grid? (ask if C1!=3)</p>	<ol style="list-style-type: none"> 1. Before 2016 2. 2016 3. 2017 4. 2018 5. 2019 6. 2020 7. 2021

	77. Refused to answer 99. Don't know
C2a Please highlight the exact date (If C2 != 77 and C2!=99)	_____ (month/year)
C3. Was your house connected to the KPLC grid, through the LMCP program? <i>(Enumerator: please give a brief explanation of the LMCP program)</i> (ask if C1!=3)	1. Yes 2. No → C4 77. Refused to answer 99. Don't know
C3.a Did you receive a <i>ready board</i> ? <i>(Enumerator: please give a brief explanation of what a ready board is)</i> (ask if C3=1)	1. Yes 2. No 77. Refused to answer 99. Don't know
C4. What did you need to do to get connected to the KPLC electricity?	1. Formally applying at the KPLC office and pay for connection 2. I was approached by KPLC contractors (as part of LMCP) 3. Form a group and apply with neighbors. 77. Refused to answer 99. Don't know 88. Other (specify)
C5. Please specify other	
C6. How much did the household pay for electricity connection? (KES)	_____ KES -77. Refuse to answer -99. Don't know
C7. Why are you NOT connected to the grid? <i>(do not read options & select all that apply)</i> (ask if C1=3)	1. Too far from transformer 2. Did not submit application in time 3. Still waiting to be connected 4. Other houses in the compound are connected and we access electricity there 5. Cannot afford it/it is expensive 6. Don't know how to get connection 7. Not interested 8. Service is not good/not reliable

	77. Refused to answer 99. Don't know 88. Other (specify)
C8. Please specify other	
C9. Has electricity from your connection ever worked? (ask if C1=2)	1. Yes, it used to work then stopped 2. No, it never worked 77. Refused to answer 99. Don't know
C10. When did the electricity connection stop working? (ask if C9=1)	_____(month/year) -77. Refused to answer -99. Don't know
C11. Why is your electricity connection not working? (do not read options & select all that apply) (ask if C1=2)	1. Did not receive a meter 2. The meter stopped working 3. Other problem related to meter/KPLC account 4. Can't afford purchasing tokens 5. Electricity was suspended/can't afford paying bills 6. Waiting for KPLC to repair the system 77. Refused to answer 99. Don't know 88. Other (specify)
C12. Please specify other	
C13. Are there other households in your compound connected to the electricity grid and sharing some electricity with you (e.g for charging phones, watching TV, etc.) ? (ask if B1=1 & C1!=1)	1. Yes 2. No
C14. Are there other households near you connected to the electricity grid and sharing some electricity with you (e.g for charging phones, watching TV, etc.) ? (ask if C1!=1 & C4!=1)	1. Yes 2. No → <i>Section C.2</i>

<p>C15. In the last 30 days, how many days did you use grid electricity?</p> <p><i>(if you used electricity from family and neighbors, please consider the number of days in which it was used)</i></p>	<p>_____ days</p> <p>-77. Refused to answer -99. Don't know</p> <p>→ If zero go to section C.2</p>
<p>C16. How much did the household pay for KPLC electricity in the last 30 days? (KES)</p> <p><i>(if you used electricity from family and neighbors, please include the amount paid for that use, if any)</i></p>	<p>_____ KES</p> <p>-77. Refuse to answer -99. Don't know</p>
<p>C17. Mode of payment</p>	<p>1. Prepaid (tokens) 2. Postpaid (billed) 3. Through a third party (e.g. landlord/family/neighbors) 77. Refused to answer 99. Don't know 88. Other (specify)</p>
<p>C18. Please specify other</p>	
<p>C19. What is grid electricity used for in your household? (from your own connection or neighbors connection)</p> <p><i>(read options and mark all that apply)</i></p>	<p>MULTI-SELECT</p> <p>1. Lighting 2. Powering fridges for cold food storage 3. Cooking (electric cooking plate, blenders, mixers) 4. Powering TVs and Radios for entertainment and information 5. Powering other household appliances like irons and fans 6. Powering farm implements like chaff cutters, milking machines 7. Powering business equipment (fridges, computers, etc. used for business purpose) 8. Charging mobile phones 9. Powering computers, laptops for personal use</p> <p>77. Refused to answer 99. Don't know 88. Other (specify)</p>
<p>C20. Please specify other (from question C19)</p>	

<p>C20a. What is the most important use of grid electricity (from your own connection or neighbor connection) in your household?</p>	<ol style="list-style-type: none"> 1. Lighting 2. Powering fridges for cold food storage 3. Cooking (electric cooking plate, blenders, mixers) 4. Powering TVs and Radios for entertainment and information 5. Powering other household appliances like irons and fans 6. Powering farm implements like chaff cutters, milking machines 7. Powering business equipment (fridges, computers, etc. used for business purpose) 8. Charging mobile phones 9. Powering computers, laptops for personal use <p>77. Refused to answer 99. Don't know 88. Other (specify)</p>
<p>→ If answer to C1 != 1 go to Section C.2 other energy sources</p>	
<p>C20b. How many light bulbs/fluorescent tubes powered by KPLC grid do you have?</p> <p>(ask if C19 includes 1)</p>	<p>_____</p> <p>-77. Refused to answer -99. Don't know</p>
<p>C21. In the last 7 days, has your electricity connection delivered power to your home?</p>	<ol style="list-style-type: none"> 1. Yes 2. No <p>77. Refused to answer 99. Don't know</p>
<p>C22. Why was electricity NOT delivered to your house?</p> <p>(ask if C21=2)</p>	<ol style="list-style-type: none"> 1. We didn't purchase tokens 2. Arrears 3. There was a problem on the line <p>77. Refused to answer 99. Don't know 88. Other (specify)</p>
<p>C23. Please specify other</p>	
<p>C24. How many times in the last 7 days did electricity fail for more than 15 minutes?</p> <p>(ask if C21!=2)</p>	<p>_____</p> <p>-77. Refused to answer -99. Don't know</p>

<p>C25. What was the total duration of all the outages/blackouts in the last 7 days?</p> <p>(ask if C24>0)</p>	<p>_____ hours</p> <p>-77. Refused to answer -99. Don't know</p>
<p>C26. In the last 7 days, how many hours of electricity are available each evening (on average), from 6 pm to 12 midnight from the grid? (max 6 hours)</p> <p>(ask if C21!=2)</p>	<p>_____ hours</p> <p>-77. Refused to answer -99. Don't know</p>
<p>C27. Do you receive information about outages or "load-shedding" schedule (set hours of electricity available from the grid)?</p>	<p>1. All the time 2. Most of the time 3. Some of the time 4. No</p> <p>77. Refused to answer 99. Don't know</p>
<p>C28. How many days in the last 30 days, was the voltage too low to run appliances?</p> <p>(Number of days<=30)</p>	<p>_____ days</p> <p>-77. Refused to answer -99. Don't know</p>
<h2>C.2 OTHER ELECTRICITY SOURCES</h2>	
<p>C29. Which of the following electricity sources has the household used in the past 12 months? (read options and mark all that apply)</p> <p>(do not include rechargeable batteries that are part of the household's solar home system)</p>	<p>1. Generator 2. Rechargeable batteries (e.g. car batteries) 66. None of these 77. Refuse to answer 99. Don't know</p>
<p>C.29.i How many of [electricity source i] did the household use in the past 12 months? (ask for all the energy sources selected in question C29)</p>	<p>_____</p> <p>-77. Refused to answer -99. Don't know</p>

Ask the following questions if C29.5>0 Generator	
<p>C31. <i>[Enumerator Observation]:</i> What is the capacity of the generator? <i>(Read nameplate of the generator)</i></p> <p><i>(if multiple generators, ask the following question about the main one)</i></p>	<p>_____ kVA</p> <p>-77. Refused to answer/show generator -99. Don't know/can't be observed</p>
<p>C32. In the last 30 days, how many days did you use the generator?</p>	<p>_____ days</p> <p>-77. Refused to answer -99. Don't know</p>
<p>C33. What is(are) the generator(s) used for in your household?</p> <p><i>(read option and mark all that apply)</i></p>	<p>MULTI-SELECT</p> <ol style="list-style-type: none"> 1. Lighting 2. Powering fridges for cold food storage 3. Cooking (electric cooking plate, blenders, mixers) 4. Powering TVs and Radios for entertainment and information 5. Powering other household appliances like irons and fans 6. Powering farm implements like chaff cutters, milking machines 7. Powering business equipment (fridges, computers, etc used for business purpose) 8. Charging mobile phones 9. Powering computers, laptops for personal use <p>77. Refused to answer 99. Don't know 88. Other (specify)</p>
<p>C34. Please specify other</p>	
<p>C34a. What is the most important use of the generator(s) in your household?</p>	<ol style="list-style-type: none"> 1. Lighting 2. Powering fridges for cold food storage 3. Cooking (electric cooking plate, blenders, mixers) 4. Powering TVs and Radios for entertainment and information 5. Powering other household appliances like irons and fans 6. Powering farm implements like chaff cutters, milking machines

	7. Powering business equipment (fridges, computers, etc. used for business purpose) 8. Charging mobile phones 9. Powering computers, laptops for personal use 77. Refused to answer 99. Don't know 88. Other (specify)
C35. Does your household own the generator?	1. Yes → C40 2. No 77. Refused to answer 99. Don't know
C36. Who owns the generator? (ask if C35=2)	1. Other Household 2. Community organization 3. Private person/entity 77. Refused to answer 99. Don't know 88. Other(specify)
C37. Please specify other	
C38. Do you rent the generator or use it for free? (ask if C35=2)	1. Rent 2. Use for free 77. Refused to answer 99. Don't know
C39. In the last 30 days , how much did you pay to use the generator? <i>Do not include any cost of fuel, only fee for using the generator.</i> (KES) (ask if C38=1 & C32>0)	____ KES -77. Refused to answer -99. Don't know
C40. In the last 30 days , how much did your household spend on fuel for this generator? (KES) (ask if C32>0)	____ KES -77. Refused to answer -99. Don't know
C41. In the last 12 months , how much did you pay for repairs/parts/maintenance of the generator? (KES) (ask if C32>0)	____ KES -77. Refused to answer -99. Don't know

Ask the following questions if C29.4>0 Rechargeable batteries (e.g. car batteries)	
C42. In the last 30 days, how many days did you use the rechargeable batteries?	_____ days -77. Refused to answer -99. Don't know
C43. What are the rechargeable batteries used for in your household? <i>(read option and mark all that apply)</i>	MULTI-SELECT: 1. Lighting 2. Powering fridges for cold food storage 3. Cooking (electric cooking plate, blenders, mixers) 4. Powering TVs and Radios for entertainment and information 5. Powering other household appliances like irons and fans 6. Powering farm implements like chaff cutters, milking machines 7. Powering business equipment (fridges, computers, etc. used for business purpose) 8. Charging mobile phones 9. Powering computers, laptops for personal use 77. Refused to answer 99. Don't know 88. Other (specify)
C44. Please specify other	
C44a What is the most important use of rechargeable batteries in your household?	1. Lighting 2. Powering fridges for cold food storage 3. Cooking (electric cooking plate, blenders, mixers) 4. Powering TVs and Radios for entertainment and information 5. Powering other household appliances like irons and fans 6. Powering farm implements like chaff cutters, milking machines 7. Powering business equipment (fridges, computers, etc. used for business purpose) 8. Charging mobile phones 9. Powering computers, laptops for personal use 77. Refused to answer 99. Don't know 88. Other (specify)

C45. What is the electricity source used to recharge the battery? <i>(select all that apply)</i>	1. National grid 2. Local mini-grid 3. Electric generator 4. Solar 77. Refused to answer 99. Don't know 88. Other (specify)
C46. Please specify other	
C47. How many recharges for all batteries did your household have in the last 30 days ? <i>(If multiple batteries, record the total number of the recharges (i.e. sum of all recharges for all batteries))</i> <i>(ask if C42>0)</i>	_____ recharges -77. Refused to answer -99. Don't know
C48. Do you pay to recharge the battery?	1. Yes 2. No → C50
C49. How much did your household spend to recharge the batteries (in total) in the past 30 days? (KES) <i>(ask if C42>0)</i>	_____ KES -77. Refused to answer -99. Don't know
C50. How many hours can you use the highest capacity rechargeable battery when fully charged if you wanted to?	_____ hours -77. Refused to answer -99. Don't know
C51. Which of the following electricity sources did the household use between April 2015 and March 2016 ?	1. Generator 2. Rechargeable batteries (e.g. car batteries) 66. None of these 77. Refuse to answer 99. Don't know
C51.a. Please specify other	

<p>C52. [i] How many of [electricity source i] did the household use between April 2015 and March 2016? (ask for all the energy sources selected in question C52)</p>	<p>_____</p> <p>-77. Refused to answer -99. Don't know</p>
<h2>C2b. SOLAR</h2>	
<p>C53. Which of the following electricity sources has the household used in the past 12 months? (read options and mark all that apply)</p>	<ol style="list-style-type: none"> 1. Solar lantern 2. Solar lighting system 3. Solar home system/component based system <p>66. None of these 77. Refuse to answer 99. Don't know</p>
<p>C54. How many of [electricity source i] did the household use in the past 12 months? (ask for all the energy sources selected in question C53)</p>	<p>_____</p> <p>-77. Refused to answer -99. Don't know</p>
<p>C55. [i] In the last 30 days, how many days did you use [device i]? (if multiple devices of this type, please calculate total)</p>	<p>_____ days</p> <p>-77. Refused to answer -99. Don't know</p>
<p>C56. What is [device i] used for in your household? (read option and mark all that apply) (if multiple devices of this type, please consider all) (ask if i!=1 and if i!=2, does not apply to solar lanterns and solar lighting system)</p>	<p>MULTI-SELECT</p> <ol style="list-style-type: none"> 1. Lighting 2. Powering fridges for cold food storage 3. Cooking (electric cooking plate, blenders, mixers) 4. Powering TVs and Radios for entertainment and information 5. Powering other household appliances like irons and fans 6. Powering farm implements like chaff cutters, milking machines 7. Powering business equipment (fridges, computers, etc. used for business purpose) 8. Charging mobile phones

	<p>9. Powering computers, laptops for personal use</p> <p>77. Refused to answer</p> <p>99. Don't know</p> <p>88. Other (specify)</p>
C57. Please specify other	
<p>C56a. What is [device i] used for in your household?</p> <p>(if multiple devices of this type, please consider all)</p> <p>(ask if i!=1 and if i!=2, does not apply to solar lanterns and solar lighting system)</p>	<ol style="list-style-type: none"> 1. Lighting 2. Powering fridges for cold food storage 3. Cooking (electric cooking plate, blenders, mixers) 4. Powering TVs and Radios for entertainment and information 5. Powering other household appliances like irons and fans 6. Powering farm implements like chaff cutters, milking machines 7. Powering business equipment (fridges, computers, etc used for business purpose) 8. Charging mobile phones 9. Powering computers, laptops for personal use <p>77. Refused to answer</p> <p>99. Don't know</p> <p>88. Other (specify)</p>
<p>C58. [i] How many light bulbs are there (that can be separated from each other) [device i] ?</p> <p>(if multiple devices of this type, please calculate total)</p> <p>(ask if i!=1, does not apply to solar lanterns)</p>	<p>_____</p> <p>-77. Refused to answer</p> <p>-99. Don't know</p>
<p>C59. [i] What is power rating [device i] ? (read the nameplate of the solar panel) (Wp -Watt-Peak)</p> <p>(if multiple devices of this type, choose the main one)</p> <p>(ask if i!=1, does not apply to solar lanterns)</p>	<p>_____</p> <p>-77. Refused to answer/to show panel</p> <p>-99. Don't know/can't find it</p>
<p>C60. [i] What is the estimated size of the solar panel?</p>	<ol style="list-style-type: none"> 1. 20 cm x 20 cm or smaller 2. 40 cm x 40 cm 3. 50 cm x 100 cm

<p><i>(if multiple devices of this type, choose the main one)</i></p> <p>(ask if i!=1, does not apply to solar lanterns)</p>	<p>4. 75 cm x 150 cm or larger</p> <p>77. Refused to answer/to show</p> <p>99. Don't know</p>
<p>C61. [i] What is the capacity of the battery? (Ah - Amp-hours)</p> <p><i>(if multiple devices of this type, choose the main one)</i></p> <p>(ask if i!=1, does not apply to solar lanterns)</p>	<p>_____</p> <p>-77. Refused to answer</p> <p>-99. Don't know</p>
<p>C62. [i] Do you have an inverted?</p> <p>(only if i=3, solar home systems)</p>	<p>1. Yes</p> <p>2. No</p> <p>77. Refused to answer</p> <p>99. Don't know</p>
<p>C63. [i] Did you buy [device i] paying upfront or under installment, do you rent it/pay a fee to use it, or did you receive it for free?</p> <p><i>(if multiple devices of this type, choose the main one)</i></p>	<p>1. Bought, fully paid</p> <p>2. Bought, under installments</p> <p>3. Rent/pay fee to use</p> <p>4. Received for free</p> <p>77. Refused to answer</p> <p>99. Don't know</p>
<p>C64. [i] Who gave you [device i] or where did you purchase [device i] ?</p> <p><i>(if multiple devices of this type, choose the main one)</i></p>	<p>1. Private organization (NGO)</p> <p>2. Private commercial seller</p> <p>3. Local government</p> <p>4. Relative/friend</p> <p>77. Refused to answer</p> <p>99. Don't know</p> <p>88. Other (specify)</p>
<p>C65. [i] Please specify other</p>	
<p>C66. [i] What payment system do you use for [device i]?</p> <p><i>(if multiple devices of this type, choose the main one)</i></p>	<p>1. Mobile pay as you go</p> <p>2. Other pay as you go (scratch card, etc)</p> <p>3. Fixed fee</p> <p>4. Don't pay for use</p> <p>77. Refused to answer</p> <p>99. Don't know</p>
<p>C67. [i] How much did you pay to use [device i] in the last 30 days (installment/rent fee/use fee)? (KES)</p>	<p>_____ KES</p> <p>-77. Refused to answer</p> <p>-99. Don't know</p>

(if multiple devices of this type, please calculate total)	
C68. Which of the following electricity sources did the household use between April 2015 and March 2016?	1. Solar lantern 2. Solar lighting system 3. Solar home system/component based system 66. None of these 77. Refused to answer 99. Don't know
C69. How many of [electricity source i] did the household use between April 2015 and March 2016? (ask for all the energy sources selected in question C29)	_____ -77. Refused to answer -99. Don't know
C.3 DRY CELL BATTERIES	
C69a In the last 30 days, how many days did you use battery-powered devices, e.g. toys, flashlights, remote controls, or anything else?	____ days -77. Refused to answer -99. Don't know → If zero go to section C.4
C69b. In the past 30 days, has your household purchased any batteries?	1. Yes 2. No → section C4 77. Refused to answer 99. Don't know
C69c. How many batteries did your household purchase in the last 30 days? (ask if C69b=1)	_____ -77. Refused to answer -99. Don't know
C69d. How much did your household spend in total on batteries in the last 30 days? (KES) (ask if C64=1)	____ KES -77. Refused to answer -99. Don't know

C.4. NON-ELECTRIC FUEL SOURCES

<p>C70. In the past 12 months has the household used any of the following non-electric fuel sources?</p>	<p>MULTI-SELECT</p> <ol style="list-style-type: none"> 1. Firewood purchased 2. Firewood collected 3. Charcoal 4. Kerosene 5. Coal/lignite 6. Animal waste/dung 7. Crop residue/plant biomass/sawdust 8. Briquette/pellet 9. Biogas 10. Ethanol 11. None of these → C76
<p><i>Ask the following questions for each of the energy sources [i] mentioned in questions C67</i></p>	
<p>C71. [i] In the last 7 days, how many days did you use [energy source i] ?</p>	<p>_____ days</p> <p>-77. Refused to answer -99. Don't know</p> <p>→ if zero go to next source</p>
<p>C72. [i] In the last 7 days how much [energy source i] did you use?</p>	<p>_____ quantity (-77=refused to answer, -99=don't know)</p>
<p>C73. Please specify unit</p>	<ol style="list-style-type: none"> 1. Kgs 2. Tray 3. Bale 4. Container 5. Heads 6. Liters 7. Number 88. Other (specify)
<p>C74. Please specify other</p>	

<p>C75. [i] In the last 7 days how much did the household spend to purchase for [energy source i]?</p> <p><i>(don't ask for collected firewood)</i></p> <p>[enumerator: if needed as how much was used in the past 7 days and calculate an estimate for the past 30 days]</p>	<p>_____ KES</p> <p>-77. Refused to answer -99. Don't know</p>
<p>C76. In the past 12 months has the household used LPG?</p>	<p>1. Yes 2. No → go to section C5</p>
<p>C77. In the last 30 days, how many days did you use LPG ?</p>	<p>_____ days</p> <p>-77. Refused to answer -99. Don't know</p> <p>→ if zero go to C5</p>
<p>C78. In the last 30 days, what LPG cylinder size did you use?</p>	<p>1. 3kg 2. 6kg 3. 13kg 4. 22.5kg 5. 50kg</p> <p>88. Other (specify) 777. Refused to answer 99. Don't know</p>
<p>C79. How long did the LPG last the last time you purchased? (number of days)</p>	<p>_____ days</p> <p>-77. Refused to answer -99. Don't know</p>
<p>C80. How much does it cost to refill your LPG cylinder? (KES)</p>	<p>_____ KES</p> <p>-77. Refused to answer -99. Don't know</p>
<p>C.5 ELECTRICITY USE</p>	

<p>C81. Which of the following activities is the household able to carry out NOW, which you were NOT able to carry out in March 2016?</p> <p><i>(enumerator: read options and select all that apply)</i></p>	<ol style="list-style-type: none"> 1. Lighting 2. Powering fridges for cold food storage 3. Cooking (electric cooking plate, blenders, mixers) 4. Powering TVs and Radios for entertainment and information 5. Powering other household appliances like irons and fans 6. Powering farm implements like chaff cutters, milking machines 7. Powering business equipment (fridges, computers, etc used for business purpose) 8. Charging mobile phones 9. Powering computers, laptops for personal use 10. None of the above <p>88. Other (specify)</p> <p>77. Refused to answer</p> <p>99. Don't know</p>
<p>C81a. Please specify other</p>	
<p><i>READ: Now I am going to ask you some questions about the different electrical appliances and durable goods that your household owns and uses. Please only tell me about appliances and durable goods used by the household.</i></p> <p><i>If you have an appliance but it is not currently used by the household, for example because it is broken or for any other reason, please do not consider it when answering the next few questions. Use means the item was used at least once in the past 30 days.</i></p>	
<p>C82. Does the household own and use any of the following kitchen appliances? (please read options and mark all that apply)</p>	<ol style="list-style-type: none"> 1. Gas stove 2. Three stones cook stove 3. Charcoal jiko 4. Electric stove 5. Electric oven 6. Refrigerator 7. Microwave oven 8. Electric food processor/blender 9. Rice cooker 10. Freezer 11. Electric hot water pot/kettle 12. Electric mill (posho mill) <p>66. None of these</p> <p>77. Refused to answer</p> <p>99. Don't know</p>

<p>C83. Did the household own and use any of the kitchen following appliances in March 2016? (please read options and mark all that apply)</p>	<ol style="list-style-type: none"> 1. Gas stove 2. Three stones cook stove 3. Charcoal jiko 4. Electric stove 5. Electric oven 6. Refrigerator 7. Microwave oven 8. Electric food processor/blender 9. Rice cooker 10. Freezer 11. Electric hot water pot/kettle 12. Electric mill (posho mill) <p>66. None of these 77. Refused to answer 99. Don't know</p>
<p>C84. Does the household own and use any of the following entertainment/IT appliances? <i>(please read options and mark all that apply)</i></p>	<ol style="list-style-type: none"> 1. Radio (using dry-cell battery) 2. Radio (without using dry-cell battery) 3. Speaker/stereo 4. TV 5. Satellite dish 6. Computer/laptop 7. Tablet 8. Videogame (e.g playstation) 9. Smartphone 10. Brick phone 11. Internet modem/router <p>66. None of these 77. Refused to answer 99. Don't know</p>
<p>C85. Did the household own and use any of the following entertainment/IT appliances in March 2016? <i>(please read options and mark all that apply)</i></p>	<ol style="list-style-type: none"> 1. Radio (using dry-cell battery) 2. Radio (without using dry-cell battery) 3. Speaker/stereo 4. TV 5. Satellite dish 6. Computer/laptop 7. Tablet 8. Videogame (e.g playstation) 9. Smartphone 10. Brick phone 11. Internet modem/router <p>66. None of these 77. Refused to answer</p>

	99. Don't know
C86. Does the household own and use any of the following other appliances? <i>(please read options and mark all that apply)</i>	1. Light Bulb 2. Fluorescent Tube 3. Security lights 4. Torch/flashlight/lantern (dry-cell) 5. Kerosene lamp 6. Fan 7. Non-Electric Iron (charcoal-based) 8. Electric Iron 9. Hair dryer 10. Washing machine 11. Non-Electric sewing machine 12. Electric sewing machine 13. Air Conditioner (AC) 14. Electric space heater 15. Electric water heater (non solar-based) 16. Solar-based water heater 17. Electric Water Pump (non solar-based) 18. Solar-based water pump 66. None of these 77. Refused to answer 99. Don't know
C87. Did the household own and use any of the following other appliances in March 2016? <i>(please read options and mark all that apply)</i>	1. Light Bulb 2. Fluorescent Tube 3. Security lights 4. Torch/flashlight/lantern (dry-cell) 5. Kerosene lamp 6. Fan 7. Non-Electric Iron (charcoal-based) 8. Electric Iron 9. Hair dryer 10. Washing machine 11. Non-Electric sewing machine 12. Electric sewing machine 13. Air Conditioner (AC) 14. Electric space heater 15. Electric water heater (non solar-based) 16. Solar-based water heater 17. Electric Water Pump (non solar-based) 18. Solar-based water pump 66. None of these 77. Refused to answer 99. Don't know

D. Household members

READ: I would like to start by asking you for some basic information on the members of this household. A household member is any individual that regularly sleeps and eats with the household at least 7 of the last 12 months OR or who makes an important economic contribution to the household. (e.g. if the husband lives in Nairobi and sends money regularly to support wife and children he is part of the household).

D.1 DEMOGRAPHICS

Ask the following questions about each household member "i" from 1 to the number reported in D0

D1.i Is [person i] the respondent and/or the household head?	1. Respondent 2. Household head 3. Both respondent and household head 4. No
D2.i Gender of [person i]	1. Female 2. Male 77. Refused to answer 99. Don't know
D4.i Age of [person i] (Age in years) (for children under 1 year, please enter 0)	____ years -77. Refused to answer -99. Don't know
D5.i Age of [person i] (children age <1) (ask if D4.i=0)	____ months 77. Refused to answer 99. Don't know
D6.i Relationship of [person i] to the household head (ask if D1.i=4)	1. Household head 2. Spouse 3. Son/daughter 4. Son/daughter in law 5. Brother/Sister 6. Father/Mother 7. Brother/Sister-in-law 8. Father/Mother-in-law 9. Grandfather/Mother 10. Grandchild 11. Niece/nephew 12. Other relative 13. Servant/Servant's relative 14. Other non-relative 88. Other (specify) 77. Refused to answer

	99. Don't know
D7.i Highest level of education completed by [person i]	<ol style="list-style-type: none"> 1. None 2. Preschool 3. Primary (incomplete) 4. Primary (complete) 5. Secondary (incomplete) 6. Secondary (complete) 7. Certificate 8. Diploma 9. University (Bachelor) 10. University (Masters) 77. Refused to answer 99. Don't know
D8.i Does [person i] have any disabilities?	<ol style="list-style-type: none"> 1. No 2. Yes 77. Refused to answer 99. Don't know
D9.i Would [person i] be sufficiently fit and able to work (outside the household) if he/she wanted to? (ask if age ≥ 16 and age < 70)	<ol style="list-style-type: none"> 1. Yes 2. No, very serious disability 3. No, chronically ill 77. Refused to answer 99. Don't know
D10.i What is the main occupation of [person i]? ((ask if age ≥ 16 and age < 70 and D9i=1)	<ol style="list-style-type: none"> 1. Self employed in agriculture 2. Self-employed in other sector 3. Agricultural worker (for someone else) 4. Other type of worker (for someone else) 5. Student 6. Does not work but looking for work in the past seven days 7. Does not work and not looking for work 77. Refused to answer 99. Don't know
D11.i In the past 30 days, did [person i] mostly sleep at home or elsewhere (e.g because away for school/work etc) - specify location? <i>(Choose option 1 if person i spent at least 15 days at home in the past 30 days)</i>	<ol style="list-style-type: none"> 1. Home 2. School (boarding school) 3. In a city or town (for education reasons) 4. In a city or town (for work reasons) 5. In a city or town (for personal reasons) 6. Other village or rural areas (for education reasons) 7. Other village or rural areas (for work reasons) 8. Other village or rural areas (for personal reasons)

	9. Multiple locations (for work reasons, e.g. transport sector) 10. Multiple locations (for personal reasons) 77. Refused to answer 99. Don't know
D.2 EDUCATION	
<i>Ask the following questions about each household member "i" who's age is between 7 and 22</i>	
D12.i In which year did [person i] complete the KCSE exam? (ask if D7.i >=6 completed secondary school)	_____year -77. Refused to answer -99. Don't know
D13.i What score did [person i] obtain in the KCSE exam? Ask if D12.i<2021	1. A 2. A- 3. B+ 4. B 5. B- 6. C+ 7. C 8. C- 9. D+ 10. D 11. D- 12. E 77. Refused to answer 99. Don't know/don't remember
D14.i In which year did [person i] complete the KCPE exam? (ask if D7.i >=4 completed primary school)	_____year -77. Refused to answer -99. Don't know
D15.i What score did [person i] obtain in the KCPE exam? (ask if D14.i >=2015 & D14.i<2021)	_____ -77. Refused to answer -99. Don't know

<p><i>Ask the questions below only if the child has not completed secondary school and is under 18.</i></p>	
<p>D16.i Was [person i] enrolled in school between january and march 2021?</p> <p>(ask if D7.i <6 not yet completed secondary school)</p>	<p>1. Yes 2. No</p>
<p>D16a.i Did [person i] attend school between january and march 2021?</p> <p>(ask if D16.i = 1)</p>	<p>3. Yes 1. No</p>
<p>D17.i Name of school in which [person i] was enrolled between January and March 2021</p> <p>(ask if D16.i = 1)</p>	<p>_____ (open ended)</p> <p>77. Refused to answer 4. 99. Don't know</p>
<p>D18.i Why is [person i] not enrolled/not attending school? (read options and mark all that apply)</p> <p>(ask if D16.i = 2)</p>	<p>1. Can't afford to pay school fees 2. Dropped out because of need to work 3. Dropped out because of pregnancy/having a child 4. Dropped out because of marriage 5. Can't attend school because of illness or disability 6. Has not started school yet 88. Other (specify) 77. Refused to answer 99. Don't know/don't remember</p>
<p>Please specify other</p>	
<p>D19.i What was the last class completed by [person i] ?</p> <p>(ask if D16.i = 2)</p>	<p>1. Preschool 2. Standard 1 3. Standard 2 4. Standard 3 5. Standard 4 6. Standard 5 7. Standard 6 8. Standard 7 9. Standard 8 10. Form 1 11. Form 2</p>

	12. Form 3 13. Form 4 77. Refused to answer 99. Don't know
D20.i In what class was [person i] enrolled between January and March 2021? (ask if D16.i = 1)	1. Preschool 2. Standard 1 3. Standard 2 4. Standard 3 5. Standard 4 6. Standard 5 7. Standard 6 8. Standard 7 9. Standard 8 10. Form 1 11. Form 2 12. Form 3 13. Form 4 77. Refused to answer 99. Don't know
D21a.i Was [person i] at home in the last 3 week days?	1. Yes No→ next person
D21.i Over the past 3 week days how many hours did [person i] spend: Ask if D21a=1	Studying (during hours of light)? _____ Studying (during night hours)? _____ Helping out with household chores? _____ Playing? _____ Listening to radio/ watching TV? _____ Helping out with farming? _____ Helping out with other work? _____ Taking care of children/babies? _____ Working for a pay? _____ (-77=refused to answer, -99=don't know)
D.3 HEALTH & FERTILITY	

<p><i>Read: now I would like to ask some questions about of each household member's health</i></p>	
<p>In the past 30 days has [person i] experienced any of the following symptoms/illnesses? (ask only if D11.i=1)</p>	
<p>D22.i Persistent cough?</p>	<p>1. Yes 2. No 77. Refused to answer 99. Don't know</p>
<p>D23.i Difficulty breathing?</p>	<p>3. Yes 4. No 77. Refused to answer 99. Don't know</p>
<p>D24.i Asthma/ breathlessness at night?</p>	<p>1. Yes 2. No 77. Refused to answer 99. Don't know</p>
<p>D25.i Malaria?</p>	<p>1. Yes 2. No 77. Refused to answer 99. Don't know</p>
<p>D26.i Eye irritation?</p>	<p>1. Yes 2. No 3. I don't know what it means 77. Refused to answer 99. Don't know</p>
<p>D27.i In the past 30 days has [person i] been ill or injured to the extent he/she was not able to perform his/her daily tasks?</p>	<p>1. Yes 2. No → D30.i 77. Refused to answer 99. Don't know</p>
<p>D28.i In the past 30 days, for how many days was [person i] unable to work, attend school, or perform household chores because of illness or injury?</p>	<p>_____ days -77. Refused to answer -99. Don't know</p>
<p>D29.i Is [person i] expecting a child/have a spouse/partner who is currently expecting a child? (ask only for women age 12 to 45) D30.i</p>	<p>1. Yes 2. No 77. Refused to answer 99. Don't know</p>

<p>D31.i What is the relationship of [person i] and the mother/father of the child? (ask if answer to D30.i is 1)</p>	<p>1. Spouse/partner (in this household) 2. Spouse/partner (outside this household) 3. Not in a relationship 77. Refused to answer 99. Don't know</p>
<h2>D.4 EMPLOYMENT</h2>	
<p><i>Ask the following questions about each household member "i" who's age is between age >=16 and age <70. (and D9i=1)</i></p>	
<p>D35.i In the last 30 days, has [person i] been employed or worked for a pay? <i>Do not include self-employment activities (i.e household agriculture, household businesses etc.)</i></p>	<p>1. Yes → D37.i 2. No 77. Refused to answer 99. Don't know</p>
<p>D36.i In the last 30 days, has [person i] been working as a volunteer, intern or an attachment, with either no pay or only occasional pay? <i>Do not include self-employment activities (i.e household agriculture, household businesses etc.)</i></p>	<p>3. Yes 4. No 77. Refused to answer 99. Don't know → go to question D50.i</p>
<p>D37.i Sector of employment? [list comes from WB multi-tier survey]</p>	<p>1. Agriculture, forestry and fishing 2. Mining and quarrying 3. Manufacturing 4. Electricity, gas, steam and air conditioning supply 5. Water supply; sewerage, waste management and remediation activities 6. Construction 7. Wholesale and retail trade; 8. Transportation and storage 9. Accommodation and food service activities 10. Information and communication 11. Financial and insurance activities 12. Real estate activities 13. Professional, scientific and technical activities 14. Administrative and support service activities 15. Public administration and defense; compulsory social security 16. Education 17. Human health and social work activities</p>

	18. Arts, entertainment and recreation 19.Domestic help (cleaner, security, etc.) 20. Activities of extraterritorial organizations and bodies 21. Other service activities (hairdresser, gym instructor, etc) 22. Repair of motor vehicles and motorcycles 77. Refused to answer 99. Don't know 88. Other (specify)
D37a.iPlease specify other	
D38.i Which year did [person i] start this job?	____year (-77=refused to answer, -99=don't know)
D39.i Specify the date in which [person i] start this job?	(date format)
D40.i For how many months was [person i] actively looking before starting this job? (ask only if D38.i>=2016)	____ months (-77=refused to answer, -99=don't know)
D41.i How did [person i] learn about this job opportunity?	1. From friends/family (in person) 2. From friends/family (phone call) 3. From friends/family (using social media) 4. From walking to various locations 5. Advertisements founds in newspapers 6. Advertisements found on the internet (websites) 7. Advertisements found on the internet (social media) 8. Heard about it on the radio 77. Refused to answer 99. Don't know 88. Other (specify)
D42.i Please specify other	

D43.i How many hours per day did [person i] work at this job in the past 7 days ?	<p>_____ hours</p> <p>(-77=refused to answer, -99=don't know)</p>
D44.i How many days did [person i] work at this job in the past 7 days ?	<p>_____ days</p> <p>(-77=refused to answer, -99=don't know)</p>
D45.i How many weeks did [person i] work at this job in the 4 weeks?	<p>_____ weeks</p> <p>(-77=refused to answer, -99=don't know)</p>
D46.i Where did [person i] work at this job?	<ol style="list-style-type: none"> 1. In this village 2. Outside the village (town or other village) 3. Outside the village in multiple locations (e.g for transport sector) <p>77. Refused to answer 99. Don't know</p>
D47.i Does [person i] receive a monthly salary or daily payments for this job?	<ol style="list-style-type: none"> 1. Monthly 2. Other regular payments 3. Daily payments (casual work) <p>77. Refused to answer 99. Don't know</p>
D48a.i What is the daily amount that [person i] receives for this job (please consider the value of in-kind payments as well)?(KES) (ask if D47.i= 3)	<p>_____</p> <p>-77. Refused to answer -99. Don't know</p>
D48.i What is the daily amount that [person i] receives for this job (please consider the value of in-kind payments as well)? (ask if D48a.i== -77 or D48a.i== -99)	<ol style="list-style-type: none"> 1. <500 2. 500-1,000 3. 1,000-5,000 4. 5,000-10,000 5. >10,000 <p>77. Refused to answer 99. Don't know</p>
D49a.i What was the amount of salary of [person i] for the last month (please include both cash and in-kind)? (KES) (ask if D47.i<3)	<p>_____</p> <p>-77. Refused to answer -99. Don't know</p>

<p>D49.i What was the amount of salary of [person i] for the last month (please include both cash and in-kind)? (KES)</p> <p>(ask if D49a.i=-77 or D49a.i=-99)</p>	<p>1. <10,000 2. 10,000 to 30,000 3. 30,000 to 50,000 4. 50,000 to 70,000 5. 70,000 to 100,000 6. >100,000 77. Refused to answer 99. Don't know</p>
<p>D50.i Does [person i] receive benefits such as health insurance, unemployment insurance, pension, etc. from this job?</p> <p>(ask if D47.i<3)</p>	<p>1. Yes 2. No 77. Refused to answer 99. Don't know</p>
<p>D51.i Is [person i] currently looking for a job, or another job?</p>	<p>1. Yes → D49.i 2. No 77. Refused to answer 99. Don't know</p>
<p>D52.i Why is [person i] NOT looking for a job, or another job?</p>	<p>1. Has a business/farm to run 2. In school/college/university, etc. 3. Happy with current job 4. No opportunities locally 88. Other (specify) 77. Refused to answer 99. Don't know</p>
<p>D53.i Please specify other</p>	
<p>D54.i In the last 7 days, how many hours did [person i] spend looking for a job, applying for jobs or doing interviews?</p>	<p>_____ hours 77. Refused to answer 99. Don't know</p>

E. Businesses/self-employment (outside agriculture)

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E.1 BUSINESSES/SELF-EMPLOYMENT

READ: Now I'm going to ask you about the businesses owned by your household. Please consider all businesses owned by the household even if small. Please also consider other self-employment activities conducted by household member (e.g. boda rider) with the exception of agriculture, livestock and fishing activity

<p>E1. In the past 30 days has any member of the household had a business or self-employment activity of any kind, with the exception of agricultural, livestock, and fishing activity?</p> <p><i>(include food processing businesses and small businesses operated at home. Also include any self-employment activity conducted by household members e.g. boda rider)</i></p>	<p>1. Yes 2. No → Section F</p>
<p>E2. How many businesses are owned by the household, with the exception of agricultural, farming, or fishing?</p> <p><i>If the household owns a post-production processing business related to agriculture, or fishing, the answer to this question SHOULD be COUNTED.</i></p>	<p>_____</p> <p>(-77=refused to answer, -99=don't know)</p>
<p><i>Ask the following questions for each business (i) run by the household</i></p>	
<p>E3. [i] What is the main activity of [business i]? What does it make, produce, sell, or what service does it provide?</p>	<ol style="list-style-type: none"> 1. Agroveter 2. Bakery 3. Bank 4. Bar 5. Barber / Kinyozi 6. Battery Charging Point 7. Brick Making 8. Butchery 9. Carpentry 10. Chemist 11. Cybercafe 12. Dairy shop / Milk shop 13. Fuel Pump 14. Hotel/restaurant/kibanda 15. Kiosk / General shop 16. Lodge/accommodation 17. Garages

	18. Gambling Shop 19. Mpesa Shop 20. Mobile Repair Shop 21. Phone Charging Point 22. Posho Mill 23. Solar Kiosk 24. Saloon 25. Tailor 26. Telecom Antenna 27. Video Hall 28. Welding 29. Water Selling Point 30. Boda boda rider (self-employed) 31. Taxi driver (self-employed) 32. Electrician (self-employed) 33. Mechanic(self-employed) 34. Plumber (self-employed) 88. Other (specify) 77. Refused to answer 99. Don't know
E3a.[i] Please specify other	
E4. [i] What is the name of the business?	
E5. [i] Which household members are responsible for making decisions related to [business i]?	(select multiple) [list of housheold members] 77. Refused to answer 66. None 99. Don't know
E5a. [i] who is the main decision maker on issues related to [business i]?	[list of housheold members] 77. Refused to answer 66. None 99. Don't know
E6. [i] Which household members are responsible for making decisions on how to spend the profits originating from [business i]?	(select multiple) [list of housheold members] 77. Refused to answer 66. None 99. Don't kno
E6a.[i] who is the main decision maker on how to spend profits originating from [business i]?	[list of housheold members] 77. Refused to answer 66. None

	99. Don't know
E7. In the past 7 days, which household members have worked in [business i]?	(select multiple) 77. Refused to answer 99. Don't know
<i>For each of household member (j) selected in E7 ask</i> E8. [i,j] How many hours did [person j] work in [business i] in the past 7 days?	____ hours -77. Refused to answer -99. Don't know
E9. [i] How many people are employed in the [business i](excluding household members)?	____ -77. Refused to answer -99. Don't know
E10. [i] In the last month, what was the total amount of salary or wages paid by [business i] to all workers? (KES)	____ KES -77. Refused to answer -99. Don't know
E11. [i] What portion of the [business i] belongs to your household? (percentage)	____ % -77. Refused to answer -99. Don't know
E12. [i] How many years has this business existed? Round to whole years (1 year and 8 months = 1)	____ years -77. Refused to answer -99. Don't know
E13. [i] How many months has this [business i] operated out of the last 3 months?	1. Half a month 2. 1 month 3. 1.5 months 4. 2 months 5. 2.5 months 6. 3 months 77. Refused to answer 99. Don't know
E14. [i] Where is this business based?	1. In the house or at the parcel. 2. Outside the house within the village 3. Within the village in multiple locations 4. Outside the village

	<p>5. Outside the village in multiple locations</p> <p>77. Refused to answer 99. Don't know</p>
E15. [i] Is your business connected to the KPLC power grid?	<p>1. Yes 2. No → E19 77. Refused to answer 99. Don't know</p>
E15a [i] Was your business connected to the KPLC power grid through the LMCP?	<p>1. Yes 2. No 77. Refused to answer 99. Don't know</p>
E16. [i] Do you need electricity for [business i] to operate?	<p>1. Yes 2. No 77. Refused to answer 99. Don't know</p>
<p>E17. [i] What is grid electricity used for in your [business i]?</p> <p><i>(read option and mark all that apply)</i></p>	<p>MULTI-SELECT:</p> <p>1. Lighting 2. Powering fridges for cold food storage 3. Cooking (electric cooking plate, blenders, mixers) 4. Powering TVs and Radios for entertainment and information 5. Powering computers/laptops, and other office appliances 6. Powering machines used for running business 7. Charging mobile phones 77. Refused to answer 99. Don't know 88. Other (specify)</p>
E17a. Please specify other	
E18. [i] What is the main use of electricity for [business i]?	<p>1. Lighting 2. Powering fridges for cold food storage 3. Cooking (electric cooking plate, blenders, mixers)</p>

	4. Powering TVs and Radios for entertainment and information 5. Powering computers/laptops, and other office appliances 6. Powering machines used for running business 7. Charging mobile phones 77. Refused to answer 99. Don't know 88. Other
<p>E19a. What were your total earnings (money in only – do not subtract any expenses) from this business in the last 30 days? (KES)</p> <p>Here we mean the amount you received from this business for sales & services provided before subtracting any expenses for payment of workers, or purchase of inputs, personal, or family items.</p>	<p>_____</p> <p>-77. Refused to answer -99. Don't know</p>
<p>E19. What were your total earnings (money in only – do not subtract any expenses) from this business in the last 30 days? (KES)(<i>choose range</i>)</p> <p>Here we mean the amount you received from this business for sales & services provided before subtracting any expenses for payment of workers, or purchase of inputs, personal, or family items.</p> <p>(ask if E19a=-77 or E19a=-99)</p>	1. <5,000 2. 5,000 to 10,000 3. 10,000 to 20,000 4. 20,000 to 50,000 5. 50,000 to 100,000 6. 100,000 to 500,000 7. >500,000 77. Refused to answer 99. Don't know
E20a. What was your total profit from this	

<p>business in the last 30 days? (KES)</p> <p>Here we mean the amount you received after paying for expenses for this business, including hired workers, money for household members who helped, purchase of goods for sale or for inputs, such as raw materials, fuel, and electricity, but before purchasing personal items for yourself or your household.</p>	<p>_____</p> <p>-77. Refused to answer -99. Don't know</p>
<p>E20. What was your total profit from this business in the last 30 days? (KES) (choose range)</p> <p>Here we mean the amount you received after paying for expenses for this business, including hired workers, money for household members who helped, purchase of goods for sale or for inputs, such as raw materials, fuel, and electricity, but before purchasing personal items for yourself or your household.</p> <p>(ask if E20a=-77 or E20a=-99)</p>	<ol style="list-style-type: none"> 1. <5,000 2. 5,000 to 10,000 3. 10,000 to 20,000 4. 20,000 to 50,000 5. 50,000 to 100,000 6. 100,000 to 500,000 7. >500,000 <p>77. Refused to answer 99. Don't know</p>

F.Agriculture

F.1 AGRICULTURAL ACTIVITIES AND LAND	
F1. In the past 12 months, has the household performed any agricultural	1. Cultivating crops for household consumption

activities? <i>(mark all that apply)</i>	2. Cultivating crops with the purpose of selling the production 3. Reared livestock for household consumption 4. Reared livestock with the purpose of selling live animals 5. Reared livestock with the purpose of selling livestock products (eggs, milk, meat, etc) 6. Fishing for household consumption 7. Fishing with the purpose of selling fish 8. None of these → <i>Section G</i>
F2. What is the total size of the land used for these activities? <i>(choose range)</i>	1. < 1 acre 2. 1-5 acres 3. 5-10 acres 4. >10 acres 77. Refused to answer 99. Don't know
F3. Over the past 7 days, how many hours did you work to perform these activities?	____ hours -77. Refused to answer -99. Don't know
F4. Over the past 7 days, how many hours did other household members work to perform these activities? (compute total)	____ hours -77. Refused to answer -99. Don't know
F5. Over the past 7 days, how many hours did hired workers from outside the household work to perform these activities? (compute total)	____ hours -77. Refused to answer -99. Don't know
F6. Does this land have any irrigation system?	1. Yes 2. No → F8 77. Refused to answer 99. Don't know
F7. Do you use electricity for irrigating this land?	1. Yes 2. No → F6 77. Refused to answer 99. Don't know
F8. In which year did you start using electricity for irrigating this land?	____ year -77. Refused to answer -99. Don't know

<p>F9. For which of these activities was electricity used ? <i>(read options and select all that apply)</i></p>	<ol style="list-style-type: none"> 1. Cultivating crops 2. Storing crops 3. Rearing livestock 4. Producing livestock products 5. Storing livestock products 6. Storing fish 7. None <p>77. Refused to answer 99. Don't know</p>
<h2>F.2 CROPS</h2>	
<p>F10. Indicate for each crop if the household harvested and sold in the last 12 months.</p> <p><i>(Ask if F1 contains 2)</i></p>	<p>MULTI-SELECT</p> <ol style="list-style-type: none"> 1. Maize 2. Cassava 3. Millet Sorghum 4. Beans 5. Rice 6. Other roots and tubers (sweet potatoes, ginger, etc.) 7. Vegetables (inc. tomatoes, eggplant, peppers, etc) 88. Other (specify) <p>77. Refused to answer 99. Don't know</p>
<p>F10a. Please specify other</p>	
<p>F11. For which of these crops did you use electricity for production?</p> <p><i>(ask if F9 contains 1 (used electricity for crop production))</i></p>	<p>MULTI-SELECT</p> <ol style="list-style-type: none"> 1. Maize 2. Cassava 3. Millet Sorghum 4. Beans 5. Rice 6. Other roots and tubers (sweet potatoes, ginger, etc.) 7. Vegetables (inc. tomatoes, eggplant, peppers, etc) 88. Other (specify) <p>77. Refused to answer 99. Don't know</p>
<p>F11a Please specify other</p>	

<p>F12. For which of these crops did you use electricity for storage?</p> <p>(ask if F9 contains 2 (used electricity for crop storage))</p>	<p>MULTI-SELECT</p> <ol style="list-style-type: none"> 1. Maize 2. Cassava 3. Millet Sorghum 4. Beans 5. Rice 6. Other roots and tubers (sweet potatoes, ginger, etc.) 7. Vegetables (inc. tomatoes, eggplant, peppers, etc) 88. Other (specify) 77. Refused to answer 99. Don't know
F12a Please specify other	
<p>F13. How much did the household earn in total with the sale of all these crops in the past 30 days?(KES)</p> <p>(Ask if F1 contains 2)</p>	<p>_____</p> <p>-77. Refused to answer</p> <p>-99. Don't know</p>
<p>F13a. How much did the household earn in total with the sale of all these crops in the past 30 days? (KES)</p> <p>(ask if F12a=-77 or F12a=-99)</p>	<ol style="list-style-type: none"> 1. 0 2. 0-3,000 3. 3,000-5,000 4. 5,000-10,000 5. 10,000-20,000 6. 20,000-50,000 7. 50,000-100,000 8. >100,000 <p>77. Refused to answer</p> <p>99. Don't know</p>
<p>F14. How much did the household earn in total with the sale of all these crops in the past 12 months? (KES)</p>	<p>_____</p> <p>-77. Refused to answer</p> <p>-99. Don't know</p>
<p>F14a. How much did the household earn in total with the sale of all these crops in the past 12 months? (KES)</p> <p>(ask if F13a=-77 or F13a=-19)</p>	<ol style="list-style-type: none"> 1. <30,000 2. 30,000-50,000 3. 50,000-100,000 4. 100,000-200,000 5. 200,000-500,000 6. 500,000-1,000,000 7. >1,000,000 <p>77. Refused to answer</p>

	99. Don't know
F.3 LIVESTOCK	
<i>Ask these questions if F1 contains 4</i>	
<p>F15. In the past 12 months, has your household owned any of the following animals?</p> <p><i>(note - there is no question F14)</i></p>	<p>MULTI-SELECT</p> <ol style="list-style-type: none"> 1. Chicken 2. Other poultry birds 3. Sheep/goats 4. Cattle 5. Pigs 88. Other (specify)
F15a Please specify other	
<p>F16. For which of these animals did you use electricity for rearing?</p> <p><i>(ask if F9 contains 3 (used electricity for household rearing))</i></p>	<p>MULTI-SELECT</p> <ol style="list-style-type: none"> 1. Chicken 2. Other poultry birds 3. Sheep/goats 4. Cattle 5. Pigs 88. Other (specify)
F16a Please specify other	
<p>F17. How much did the household earn in total with the sale of all these animals in the past 30 days? (KES)</p>	<p>_____ KES</p> <p>-77. Refused to answer -99. Don't know</p>
<p>F17a How much did the household earn in total with the sale of all these animals in the past 30 days? (KES)</p> <p><i>(ask if F17a=-77 or F17a=-99)</i></p>	<ol style="list-style-type: none"> 1. 0 2. 0-3,000 3. 3,000-5,000 4. 5,000-10,000 5. 10,000-20,000 6. 20,000-50,000 7. 50,000-100,000 8. >100,000 <p>77. Refused to answer 99. Don't know</p>
<p>F18. How much did the household earn in total with the sale of all these animals in the past 12 months? (KES)</p>	<p>_____ KES</p> <p>-77. Refused to answer -99. Don't know</p>

<p>F18a. How much did the household earn in total with the sale of all these animals in the past 12 months? (KES)</p> <p><i>(ask if F18a=-77 or F18a=-99)</i></p>	<ol style="list-style-type: none"> 1. <30,000 2. 30,000-5,000 3. 50,000-100,000 4. 100,000-200,000 5. 200,000-500,000 6. 500,000-1,000,000 7. >1,000,000 <p>77. Refused to answer 99. Don't know</p>
<h2>F.4 ANIMAL PRODUCTS</h2>	
<p>F19. In the past 12 months has your household sold any of the following animal products? <i>(Ask if F1 contains 5)</i></p>	<p>MULTI-SELECT</p> <ol style="list-style-type: none"> 1. Eggs 2. Milk 3. Meat <p>88. Other (specify)</p>
<p>F19a. Please specify other</p>	
<p>F20. Did you use electricity for the production of any of these products? <i>(ask if F9 contains 4 (used electricity for producing livestock products))</i></p>	<p>MULTI-SELECT</p> <ol style="list-style-type: none"> 1. Eggs 2. Milk 3. Meat <p>88. Other (specify)</p>
<p>F20a Please specify other</p>	
<p>F21. Did you use electricity for the storage of any of these products? <i>(ask if F9 contains 5 used electricity for storing livestock products)</i></p>	<p>MULTI-SELECT</p> <ol style="list-style-type: none"> 1. Eggs 2. Milk 3. Meat <p>88. Other (specify)</p>
<p>F21a Please specify other</p>	
<p>F22. How much did the household earn in total with the sale of all these products in the past 30 days? (KES)</p>	<p>_____ KES</p> <p>-77. Refused to answer -99. Don't know</p>
<p>F22a. How much did the household earn in total with the sale of all these products in the past 30 days? (KES)</p>	<ol style="list-style-type: none"> 1. 0 2. 0-3,000 3. 3,000-5,000 4. 5,000-10,000

(ask if F22a=-77 or F22a=-99)	5. 10,000-20,000 6. 20,000-50,000 7. 50,000-100,000 8. >100,000 77. Refused to answer 99. Don't know
F23. How much did the household earn in total with the sale of all these products in the past 12 months ? (KES) (Ask if F1 contains 5)	_____ KES -77. Refused to answer -99. Don't know
F23a. How much did the household earn in total with the sale of all these products in the past 12 months ? (KES) (ask if F23a=-77 or F23a=-99)	1. <30,000 2. 30,000-5,000 3. 50,000-100,000 4. 100,000-200,000 5. 200,000-500,000 6. 500,000-1,000,000 7. >1,000,000 77. Refused to answer 99. Don't know
<h2>F.5 FISHING</h2>	
<p><i>Ask these questions if F1 contains 7</i></p>	
F24. How much did you earn for the sale of the fish in the past 30 days? (KES)	_____ KES -77. Refused to answer -99. Don't know
F24a. How much did you earn for the sale of the fish in the past 30 days? (KES) (ask if F24a=-77 or F24a=-99)	1. 0 2. 0-3,000 3. 3,000-5,000 4. 5,000-10,000 5. 10,000-20,000 6. 20,000-50,000 7. 50,000-100,000 8. >100,000 77. Refused to answer

	99. Don't know
F25. How much did you earn for the sale of the fish in the past 12 months? (KES)	_____KES -77. Refused to answer-99. Don't know
F25a. How much did you earn for the sale of the fish in the past 12 months? (KES) (ask if F25a=-77 or F25a=-99)	1. <30,000 2. 30,000-5,000 3. 50,000-100,000 4. 100,000-200,000 5. 200,000-500,000 6. 500,000-1,000,000 7. >1,000,000 77. Refused to answer 99. Don't know

G. Savings, Borrowing, & Remittances

G.1 SAVINGS & BORROWING	
<i>READ: I would like to begin this section by asking you some questions about your savings and borrowing activities.</i>	
G1.Which financial institutions do the members of this household belong to or interact with? (select all that apply)	MULTI-SELECT 1. Bank 2. Micro-finance institution 3. SACCO 4. Mobile money 5. Money lender (shylock) 6. Merry go round 7. None 88. Other (specify) 77. Refused to answer 99. Don't know
G2.Please specify other	

<p>G3. Which financial institutions do the members of this household use for their savings in the past 12 months? <i>(select all that apply)</i></p>	<p>MULTI-SELECT</p> <ol style="list-style-type: none"> 1. Bank 2. Micro-finance institution 3. SACCO 4. Mobile money 5. Money lender (shylock) 6. Merry go round 7. None <p>88. Other (specify) 77. Refused to answer 99. Don't know</p>
<p>G4. Please specify other</p>	
<p>G4a. Which is the main financial institution that members of this household used for their savings in the past 12 months?</p>	<ol style="list-style-type: none"> 1. Bank 2. Micro-finance institution 3. SACCO 4. Mobile money 5. Money lender (shylock) 6. Merry go round 7. None <p>88. Other (specify) 77. Refused to answer 99. Don't know</p>
<p>G5. Have the overall savings of this household increased or decreased since March 2016?</p> <p>(if the household didn't exist in March 2016, please think about the overall savings of the respondent in 2016)</p>	<ol style="list-style-type: none"> 1. Increase 2. Remained the same 3. Decreased <p>77. Refused to answer 99. Don't know</p>
<p>G6. Which financial institutions do the members of these households use for their borrowing in the past 12 months? <i>(select all that apply)</i></p>	<p>MULTI-SELECT-ORDERED</p> <ol style="list-style-type: none"> 1. Bank 2. Micro-finance institution 3. SACCO 4. Mobile money 5. Money lender (shylock) 6. Merry go round 7. Family and friends 8. Employer 9. Religious institutions 10. None <p>88. Other (specify) 77. Refused to answer 99. Don't know</p>

G7.Please specify other	
G7a. Which is the main financial institutions that members of these households used for their borrowing in the past 12 months?	<ol style="list-style-type: none"> 1. Bank 2. Micro-finance institution 3. SACCO 4. Mobile money 5. Money lender (shylock) 6. Merry go round 7. Family and friends 8. Employer 9. Religious institutions 10. None 88. Other (specify) 77. Refused to answer 99. Don't know
G8.What was the money borrowed for? <i>(select all that apply i)</i> <i>(ask if G6 !=10)</i>	MULTI-SELECT ORDERED <ol style="list-style-type: none"> 1. Business related 2. House improvements 3. School fees 4. Dowry 5. Wedding/Funeral 6. Health 7. Food 8. Pay for electricity for the house 88. Other (specify) 77. Refused to answer 99. Don't know
G9.Please specify other	
G9a. What was the main purpose the money was borrowed for? <i>(select all that apply i)</i> <i>(ask if G6 !=10)</i>	<ol style="list-style-type: none"> 1. Business related 2. House improvements 3. School fees 4. Dowry 5. Wedding/Funeral 6. Health 7. Food 8. Pay for electricity for the house 88. Other (specify) 77. Refused to answer 99. Don't know
G10. Which businesses related expenses did you use	<ol style="list-style-type: none"> 1. To purchase electrical equipment 2. To purchase production inputs

<p>the money for? (select all that apply)</p> <p><i>(ask if G8 contains 1)</i></p>	<p>3. To pay for electricity</p> <p>4. To pay for construction of premises or office</p> <p>5. To expand workforce</p> <p>88. Other (specify)</p> <p>77. Refused to answer</p> <p>99. Don't know</p>
<p>G11. Please specify other</p>	
<p>G12. Which was the most important businesses related expenses that the money was used for?</p> <p><i>(ask if G8 contains 1)</i></p>	<p>1. To purchase electrical equipment</p> <p>2. To purchase production inputs</p> <p>3. To pay for electricity</p> <p>4. To pay for construction of premises or office</p> <p>5. To expand workforce</p> <p>88. Other (specify)</p> <p>77. Refused to answer</p> <p>99. Don't know</p>
<p>G13. Consider the overall amount borrowed by household members in the past 12 months. Was it larger or smaller compared to the amount borrowed by household members between April 2015 and March 2016?</p> <p><i>(if the household didn't exist in March 2016, please think about the overall borrowing of the respondent in 2016)</i></p>	<p>1. Larger</p> <p>2. Same</p> <p>3. Smaller</p> <p>77. Refused to answer</p> <p>99. Don't know</p>
<p>G14. In the past 12 months, has any household member ever tried to borrow money but were refused?</p>	<p>1. Yes</p> <p>2. No</p> <p>77. Refused to answer</p> <p>99. Don't know</p>
<p>G15. From whom did household members try to borrow money? <i>(mark all that apply)</i></p> <p><i>(ask if G14=1)</i></p>	<p>MULTI-SELECT</p> <p>1. Bank</p> <p>2. Micro-finance institution</p> <p>3. SACCO</p> <p>4. Mobile money</p> <p>5. Money lender (shylock)</p> <p>6. Merry go round</p> <p>7. Family and friends</p> <p>8. Employer</p>

	9. Religious institutions 10. None 88. Other (specify) 77. Refused to answer 99. Don't know
G16. Please specify other	
G17. What/who is the most important person/institution that the household try to borrow from? (ask if G14=1)	11. Bank 12. Micro-finance institution 13. SACCO 14. Mobile money 15. Money lender (shylock) 16. Merry go round 17. Family and friends 18. Employer 19. Religious institutions 20. None 88. Other (specify) 77. Refused to answer 99. Don't know
G18. Would you like to borrow more or are you happy with your current amount of borrowing?	1. I'd like to borrow more 2. I'm happy with current borrowing 3. I disapprove taking loans 77. Refused to answer 99. Don't know
G19. If you could borrow more money in the next month, what would you use it for? <i>(do not read options and mark all that apply)</i> (ask if G19=1)	MULTI-SELECT 1. Business related (electrical appliances/machinery) 2. Other business improvements 3. House improvements (related to electricity) 4. Other house improvements 5. Paying for electricity 6. Purchasing electrical appliances 7. School fees 8. Dowry 9. Wedding/Funeral 10. Health 11. Food 88. Other (specify) 77. Refused to answer 99. Don't know
G20. Please specify other	

G.3 MIGRATION & REMITTANCES

<p>G21. How many members of this household have migrated away from this village since March 2016? <i>(please include both former and current household members)</i></p>	<p>_____</p> <p>-77. Refused to answer -99. Don't know</p>
<p>G22. How many of the household members that migrated moved to Nairobi or other major cities in Kenya?</p> <p>(ask if 22>0)</p>	<p>_____</p> <p>-77. Refused to answer -99. Don't know</p>
<p>G23. How many of the household members that migrated moved to other countries?</p> <p>(ask if G22>0)</p>	<p>_____</p> <p>-77. Refused to answer -99. Don't know</p>
<p>G24. What were the main reasons behind the household migration?</p> <p><i>(mark all that apply)</i></p> <p>(ask if G22>0)</p>	<p>MULTI-SELECT</p> <ol style="list-style-type: none"> 1. Lack of employment opportunities 2. Lack of/limited educational opportunities 3. Poor access to public services (electricity, drinking water, sanitation) 4. Poor access to communication network/no or limited cell phone reach 5. Distance from economic resources (bank, market, stores) 6. Perso 88. Other (specify) <p>77. Refused to answer 99. Don't know</p>
<p>G25. Please specify other</p>	
<p>G26. What is the main reason behind the household migration?</p> <p>(ask if G22>0)</p>	<ol style="list-style-type: none"> 1. Lack of employment opportunities 2. Lack of/limited educational opportunities 3. Poor access to public services (electricity, drinking water, sanitation) 4. Poor access to communication network/no or limited cell phone reach

	5. Distance from economic resources (bank, market, stores) 6. Perso 88. Other (specify) 77. Refused to answer 99. Don't know
G27. Do any members of your household spend part of the year working away from home for at least 4 weeks?	1. Yes 2. No 77. Refused to answer 99. Don't know
G28. Do the household members that migrated or spend part of the year away ever send money back to the household? (ask if G22>0 or G27=1)	1. Yes 2. No 77. Refused to answer 99. Don't know
G29. Has part of the money been spent for paying for electricity in the past 30 days? (ask if G29>1)	1. Yes 2. No 77. Refused to answer 99. Don't know

H. Knowledge & Welfare

H.1 KNOWLEDGE QUIZ
READ: Now I would like to ask you some questions about current events.

<p>Enumerator: do not read the response out loud, mark only if the response provided was correct</p>	
<p>H1. What is the month and year of the next general election in Kenya?</p> <p><i>(mark as correct only if the respondent knows both month and year)</i></p>	<p>1. Correct (August 2022) 2. Wrong</p> <p>99. Don't know</p> <p>77. Refused to answer</p>
<p>H2. Do you think you could contract COVID-19 by attending a large gathering in which people are not wearing masks?</p>	<p>1. Yes, it's possible 2. No, it's not possible</p> <p>99. Don't know</p> <p>77. Refused to answer</p>
<p>H3. Do you think you could contract COVID-19 shaking hands with a friend or neighbor?</p>	<p>1. Yes, it's possible 2. No, it's not possible</p> <p>77. Refused to answer</p> <p>99. Don't know</p>
<p>H4. The president announced the rollout of the CBC on Feb 9. Which students took the CBC curriculum between January and March 2021?</p>	<p>1. Correct (Grade 1-4) 2. Wrong</p> <p>77. Refused to answer</p> <p>99. Don't know</p>
<p>H5. The president announced the rollout of the CBC on Feb 9. How many years will secondary school be with the new system?</p>	<p>1. Correct (6 years (3+3)) 2. Wrong</p> <p>77. Refused to answer</p>

	99. Don't know
H6. Who is the current president of Tanzania?	1. Correct (Samia Suluhu) 2. Wrong 77. Refused to answer 99. Don't know
H.2 WORLD VALUE SURVEY	
H7. Taking all things together, would you say you are ...?	1. Very happy 2. Rather happy 3. Not very happy 4. Not at all happy 77. Refused to answer
<i>READ: I would now like you to think of a scale in which 1 means you are "completely dissatisfied" and 10 means you are "completely satisfied".</i>	
H8. All things considered, how satisfied are you with your life as a whole these days?	_____ 77. Refused to answer
H9. How satisfied are you with the financial situation of your household?	_____ 77. Refused to answer
H10. How satisfied are you with the safety situation of your household?	_____ 77. Refused to answer
<i>Now think back to March 2016</i>	
H11. All things considered, how satisfied were you with your life as a whole in March 2016?	_____ 77. Refused to answer

H12. How satisfied were you with the financial situation of your household in March 2016?	<u> </u> 77. Refused to answer
H13. How satisfied were you with the safety situation of your household in March 2016?	<u> </u> 77. Refused to answer

I. Risk & time preference

<h3>I.1 RISK & TIME PREFERENCE</h3>	
<p><i>Now I will ask you to choose between different options. Please tell me which option you prefer in each of the following situations. You can only choose between these two options. There is no right or wrong answer.</i></p>	
<p>11. Suppose you want to invest some money. You have the choice between two options.</p> <p>Option A: Investing in a business that is safe but has low profits Option B: Investing in a business that is unsafe but potentially has high profits.</p> <p>For example, you can invest in a business selling dried fish which sell for lower prices but are less likely to spoil if there is no power or if you don't sell all of your fish in one day. Or you can invest in fresh fish which can be sold for higher prices but can spoil if there is no power or if you don't sell all of your fish in one day.</p> <p>Which option would you choose?</p>	<p>1. Option A 2. Option B 3. I have no preference 77. Refused to answer</p>
<p>12. How do you see yourself: are you a person who is generally willing to take risks, or do you try to avoid taking risks?</p>	<p>1. Completely unwilling to take risks 2. Generally unwilling to take risks 3. Somewhat willing to take risks 4. Generally willing to take risks 5. Very willing to take risks</p>

<p><i>Please use a scale from 1 to 5, where a 1 means you are “completely unwilling to take risks” and a 5 means you are “very willing to take risks”.</i></p>	<p>77. Refused to answer</p>
<p>13. Suppose you can make some profits in one month or higher profits but only after many months. You have a choice between two options.</p> <p>Option A: Some profits in one month Option B: Higher profits but only after many months.</p> <p>Which option would you choose?</p>	<p>1. Option A 2. Option B 3. I have no preference 77. Refused to answer</p>
<p>14. In comparison to others, are you a person who is generally willing to give up something today in order to benefit from that in the future or are you not willing to do so?</p> <p><i>Please use a scale from 1 to 5, where a 1 means you are “completely unwilling to give up something today” and a 5 means you are “very willing to give up something today”.</i></p>	<p>1. Completely unwilling to give up something today 2. Generally unwilling to give up something today 3. Sometimes willing to give up something today 4. Generally willing to give up something today 5. Very willing to give up something today</p> <p>77. Refused to answer</p>

J. Consumption

<i>Ask these questions to the woman who is in charge of household chores (if available, alternatively ask the respondent)</i>	
J0. Which household member are these questions referred to?	(choose from list)
J.1 HOUSEHOLD CONSUMPTION	
<i>READ: Now I want to ask about all food that your household consumed, regardless of whether it was purchased or grown by your household. Please exclude from your answer any food purchased for processing, livestock consumption, or resale in a household enterprise.</i>	
J1. Has your household consumed any of the following items at your dwelling in the past 7 days?	For each item chosen

<ol style="list-style-type: none"> 1. Rice 2. Maize flour 3. Wheat flour 4. Potatoes 5. Plantain (matoke) 6. Beans/Green grams 7. Tomatoes 8. Onions 9. Cabbage/kale/spinach/etc. 10. Beef 11. Chicken/Other poultry 12. Mutton 13. Pork 14. Fresh fish 15. Dried fish 16. Eggs 17. Watermelon 18. Bananas 19. Oranges 20. Citrus 21. Pineapple 22. Avocado 23. Mango 24. Cooking fat 25. Sugar 26. Tea/coffee 27. Breads/biscuits/cakes 	<p>- Total value(J1e) _____ KES(-77 refuse to answer, -99 don't know)</p> <p>(if purchased ask for amount spent, if produced at home or received as gift as for amount they would have spent if they had purchased it at the market)</p>
J2. In the past 7 days , how much did your household spend on Airtime, data bundles and other phone expenses in total (KES)?	<p>_____ KES</p> <p>-77=Refused to answer, -99=don't know</p>
J3. In the past 7 days , how much did your household spend on water total (KES)?	<p>_____ KES</p> <p>-77=Refused to answer -99=Don't know</p>
J4. In the past 30 days , How much did your household spend on travel, transport and hotels (NOT including medical reasons & work trips) in total (KES)?	<p>_____ KES</p> <p>-77=Refused to answer -99=Don't know</p>

<p>J5. In the past 30 days, How much did your household spend on</p> <p>Clothing and shoes in total (KES)?</p>	<p>_____KES</p> <p>-77=Refused to answer -99=Don't know</p>
<p>J6. In the past 30 days, How much did your household spend on</p> <p>Recreation/entertainment such as books/magazines, music/CDs, videos, TV subscriptions, tickets to any entertainment in total (KES)?</p>	<p>_____KES</p> <p>-77=Refused to answer -99=Don't know</p>
<p>J7. In the past 30 days, How much did your household spend on</p> <p>Personal items such as Haircuts, toiletries, cosmetics, combs, soap in total (KES)?</p>	<p>_____KES</p> <p>-77=Refused to answer -99=Don't know</p>
<p>J8. In the past 30 days, How much did your household spend on</p> <p>Household items (soap, cleaning agents, toilet paper/tissues, air freshener, shoe polish, insecticide, matches, candles) in total (KES)?</p>	<p>_____KES</p> <p>-77=Refused to answer -99=Don't know</p>
<p>J9. In the past 30 days, How much did your household spend on</p> <p>Cigarettes/tobacco products and alcohol in total (KES)?</p>	<p>_____KES</p> <p>-77=Refused to answer -99=Don't know</p>
<p>J10. In the past 30 days, How much did your household spend on</p> <p>Gambling in total (KES)?</p>	<p>_____KES</p> <p>-77=Refused to answer -99=Don't know</p>
<p>J11. In the past 30 days, How much did your household spend on</p> <p>Savings (contributing to savings accounts) in total (KES)?</p>	<p>_____KES</p> <p>-77=Refused to answer -99=Don't know</p>
<p>J12. In the past 30 days How much did your household spend on</p> <p>Religious expenses or other ceremonies such as weddings and funerals in total (KES)?</p>	<p>_____KES</p> <p>-77=Refused to answer -99=Don't know</p>

<p>J13. In the past 30 days, How much did your household spend on</p> <p>Medical expenses, (including consultation fees, medicines, hospital costs, lab test costs, ambulance costs, and related transport in total (KES)?</p>	<p>_____KES</p> <p>-77=Refused to answer -99=Don't know</p>
<p><i>NOTE: The following questions ask about spending in the past 12 months.</i></p>	
<p>J14. In the past 12 months, How much did your household spend on</p> <p>Fixing home damage or doing essential maintenance (e.g. fixing a leaking roof) in total (KES)?</p>	<p>_____KES</p> <p>-77=Refused to answer -99=Don't know</p>
<p>J15. In the past 12 month, How much did your household spend on</p> <p>Entertainment equipment (radio/TV/etc) in total (KES)?</p>	<p>_____KES</p> <p>-77=Refused to answer -99=Don't know</p>
<p>J16. In the past 12 month, How much did your household spend on</p> <p>household appliances/furniture like Microwaves, Fridges, Washing Machines, beds, sofas, tables in total (KES)?</p>	<p>_____KES</p> <p>-77=Refused to answer -99=Don't know</p>
<p>J17. In the past 12 month, How much did your household spend on</p> <p>Purchase of livestock in total (KES)?</p>	<p>_____KES</p> <p>-77=Refused to answer -99=Don't know</p>
<p>J18. In the past 12 month, How much did your household spend on</p> <p>Purchase of farming equipment in total (KES)?</p>	<p>_____KES</p> <p>-77=Refused to answer -99=Don't know</p>

K. Time use & empowerment

Ask these questions to the woman who is in charge of household chores (if available, alternatively ask the respondent)	
K0. is there a woman available?	1. Yes 2. No → section L
K0a. Which household member are these questions referred to?	(choose from list)
<h2>K.1 TIME USE</h2>	
<p><i>READ: I would now like to ask about your activities during the last week day starting with yesterday at 6am up until this morning at 6am. For each half hour, you should tell me what you did during that half hour. If you had several activities, please select multiple</i></p>	
<p><i>Ask the questions I2 and I3 for each half hour starting from 6 am</i></p>	
K1. What time did you wake up in the last week day?	(choose time) 1. 4.00 2. 4.30 ...
K2. [i] During the last week day, from [time 1] to [time 2] what were you doing? (please select multiple to allow for multitasking: i.e. often women take care of children while doing household chores and listening to radio)	<ol style="list-style-type: none"> 1. Household chores 2. Childcare 3. Cooking 4. Farm work 5. Firewood 6. Water 7. Household business 8. Agriculture 9. Tv 10. Radio 11. Working for an agricultural wage 12. Working for other sector wage Watching TV 13. Other business 14. Rest/sleep 15. Church 16. Travelling 17. Internet and social media <ol style="list-style-type: none"> 1. 6.00-6.30 _____ 2. 6.30-7.00 _____ 3. 7.00-7.30 _____ 4. 7.30-8.00 _____

K3. During the last week day, how many people have performed household chores for your household (excluding you)?	<p>_____</p> <p>77. Refused to answer 99. I don't know</p>
K4. During the last week day, how many hours did members of your household – not including you – spend doing household chores for your household? <i>(provide total)</i>	<p>_____</p> <p>77. Refused to answer 99. I don't know</p>
K5. During the last weekday, how many hours did workers from outside the household (such as hired maids who do not live with you) spend doing household chores for your household?	<p>_____</p> <p>77. Refused to answer 99. I don't know</p>
K6. In the last 7 days , how much have you spent in total (including cash and in-kind payments) on people from outside the household assisting with household chores?	<p>_____</p> <p>77. Refused to answer 99. I don't know</p>
<h2>K.2 HOUSEHOLD DECISION MAKING</h2>	
<p><i>Now I would like to ask you some questions about household decision making. We would prefer to ask questions to the woman of the household.</i></p>	
K7. Do you have a job or a small business that allows you to earn some money?	<p>1. Yes 2. No 77. Refused to answer</p>
K8. Do you have your own savings in a financial institution such as bank, mobile money, etc?	<p>1. Yes 2. No 77. Refused to answer</p>
K9. If money is available, who in your household decides whether to pay school fees for a relative from your side of the family?	<p>1. Me 2. My spouse 3. My spouse and I jointly 4. Someone else 77. Refused to answer</p>
K10. If money is available, who in your household decides whether to purchase items	<p>1. Me 2. My spouse</p>

below 5000 KES like a small radio or a paraffin lamp?	3. My spouse and I jointly 4. Someone else 77. Refused to answer
K11. If money is available, who in your household decides whether to purchase items above 5000 KES like a bicycle or a cow?	1. Me 2. My spouse 3. My spouse and I jointly 4. Someone else 77. Refused to answer
K12. If you have some money you have earned, who in your household decides whether to use it to purchase clothes for yourself and the children?	1. Me 2. My spouse 3. My spouse and I jointly 4. Someone else 77. Refused to answer

L. Final questions

L.1 METER NUMBER	
<p>L1. What is your meter number ?</p> <p><i>(Hint: This can be read from the meter for both prepaid and postpaid customers. Note: the meter is different from the Customer Interface Unit (CIU), where the customer inputs the token numbers.)</i></p> <p><i>(ask if connected to KPLC electricity)</i></p>	<p>_____</p> <p>77. Refuse to answer 99. Don't know/cannot be found</p>
L2. COMMENTS	
<p>L2. Please write any comments on the survey. (These could be details on why no respondents could be found or any other relevant information)</p>	<p>_____</p>

Thank you for your time