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# Copy of Field\_MTF\_Energy\_Survey\_HH\_07252017

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## SURVEY IDENTIFICATION INFORMATION QUESTIONNAIRE DESCRIPTION

### HOUSEHOLD IDENTIFICATION

No sub-sections, No rosters, Questions: 15.

### INTERVIEW DETAILS

Sub-sections: 1, No rosters, Questions: 7, Static texts: 2.

### A. HOUSEHOLD ROSTER

No sub-sections, Rosters: 1, Questions: 21.

### B. HOUSEHOLD CHARACTERISTICS

No sub-sections, No rosters, Questions: 34.

### C. SUPPLY AND DEMAND OF ELECTRICITY

Sub-sections: 15, Rosters: 2, Questions: 244, Static texts: 8.

### D. WILLINGNESS TO PAY FOR A GRID CONNECTION

No sub-sections, No rosters, Questions: 15, Static texts: 2, Variables: 3.

### E. WILLINGNESS TO PAY FOR IMPROVED ELECTRICITY SUPPLY

No sub-sections, No rosters, Questions: 6.

### F. WILLINGNESS TO PAY FOR SOLAR DEVICE

No sub-sections, No rosters, Questions: 8, Static texts: 2, Variables: 3.

### G. KEROSENE/FUEL-BASED /CANDLE LIGHTING

Sub-sections: 3, Rosters: 1, Questions: 22.

### H. DRY-CELL BATTERIES

No sub-sections, Rosters: 1, Questions: 10, Static texts: 1.

### I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING

Sub-sections: 13, No rosters, Questions: 78.

### J. USE OF COOKING SOLUTIONS

Sub-sections: 1, Rosters: 1, Questions: 56, Static texts: 4.

### K. SPACE AND WATER HEATING

No sub-sections, No rosters, Questions: 8.

### L. WILLINGNESS TO PAY FOR AN IMPROVED COOKSTOVE

No sub-sections, No rosters, Questions: 13, Static texts: 6.

### N. HOUSEHOLD ASSETS: TRANSPORTATION AND AGRICULTURAL EQUIPMENT OWNERSHIP AND TOTAL

No sub-sections, Rosters: 2, Questions: 7, Static texts: 1.

## P. HOUSEHOLD ECONOMIC SHOCKS

Sub-sections: 2, No rosters, Questions: 4, Static texts: 1.

## Q. STREET LIGHTING

No sub-sections, No rosters, Questions: 7, Static texts: 1.

## R. TIME USE

No sub-sections, Rosters: 1, Questions: 26.

## S. HEALTH IMPACTS

No sub-sections, Rosters: 1, Questions: 23.

## T. ATTITUDES

Sub-sections: 1, No rosters, Questions: 36, Static texts: 2.

## U. WOMEN'S EMPOWERMENT

No sub-sections, No rosters, Questions: 13, Static texts: 3.

## M. CONSUMPTION / EXPENDITURE

Sub-sections: 3, Rosters: 1, Questions: 26, Static texts: 1.

## O. HOUSEHOLD LAND OWNERSHIP AND OTHER ASSETS

Sub-sections: 1, No rosters, Questions: 5, Static texts: 1.

## CONTROL SHEET - INTERVIEW STATUS

Sub-sections: 3, No rosters, Questions: 17, Static texts: 1.

## APPENDIX A — VALIDATION CONDITIONS AND MESSAGES

## APPENDIX B — OPTIONS

## LEGEND

**SURVEY IDENTIFICATION INFORMATION  
QUESTIONNAIRE DESCRIPTION**

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**Basic information**

*Title* Copy of Field\_MTF\_Energy\_Survey\_HH\_07252017

# HOUSEHOLD IDENTIFICATION

Questionnaire Number	NUMERIC: INTEGER <span style="float: right;">Q_N</span> SCOPE: IDENTIFYING -----
Quality Control (For Supervisors)	MULTI-SELECT <span style="float: right;">QC</span> SCOPE: SUPERVISOR 01 <input type="checkbox"/> Offsite check completed 02 <input type="checkbox"/> Observational visit completed 03 <input type="checkbox"/> Back check completed
Location Name	TEXT <span style="float: right;">Location_Name</span> SCOPE: IDENTIFYING -----
GPS Tracking	GPS <span style="float: right;">GPS</span> SCOPE: IDENTIFYING ----- N ----- W ----- A
Date of Household Visit	DATE <span style="float: right;">Date HH Visit</span> -----
Ecological Region	SINGLE-SELECT <span style="float: right;">Eco_Reg</span> 01 <input type="radio"/> Mountain/High Hills 02 <input type="radio"/> Hills 03 <input type="radio"/> Terai
Province	SINGLE-SELECT <span style="float: right;">Province</span> 01 <input type="radio"/> Province 1 02 <input type="radio"/> Province 2 03 <input type="radio"/> Province 3 04 <input type="radio"/> Province 4 05 <input type="radio"/> Province 5 06 <input type="radio"/> Province 6 07 <input type="radio"/> Province 7
Development Region	SINGLE-SELECT <span style="float: right;">Dev Region</span> 01 <input type="radio"/> Eastern 02 <input type="radio"/> Central 03 <input type="radio"/> Western 04 <input type="radio"/> Mid-western 05 <input type="radio"/> Far-western
Zone	SINGLE-SELECT: CASCADING <span style="float: right;">Zone</span> 01 <input type="radio"/> Mechi 02 <input type="radio"/> Koshi 03 <input type="radio"/> Sagarmatha 04 <input type="radio"/> Janakpur 05 <input type="radio"/> Bagmati

	06 <input type="radio"/> Narayani 07 <input type="radio"/> Gandaki 08 <input type="radio"/> Dhaulagiri 09 <input type="radio"/> Lumbini 10 <input type="radio"/> Rapti 11 <input type="radio"/> Bheri 12 <input type="radio"/> Karnali 13 <input type="radio"/> Seti 14 <input type="radio"/> Mahakali
VDC/Municipality	SINGLE-SELECT <span style="float: right;">VDC_MUN</span> 01 <input type="radio"/> VDC 02 <input type="radio"/> Municipality
VDC/Municipality Name	TEXT <span style="float: right;">VDC_MUN_NAME</span> .....
3. District	SINGLE-SELECT: CASCADING <span style="float: right;">District</span> 01 <input type="radio"/> Taplejung 02 <input type="radio"/> Panchthar 03 <input type="radio"/> Ilam 04 <input type="radio"/> Jhapa 05 <input type="radio"/> Morang 06 <input type="radio"/> Sunsari 07 <input type="radio"/> Dhankuta 08 <input type="radio"/> Tehrathum 09 <input type="radio"/> Sankhuwasabha 10 <input type="radio"/> Bhojpur 11 <input type="radio"/> Solukhumbu 12 <input type="radio"/> Okhaldhunga 13 <input type="radio"/> Khotang 14 <input type="radio"/> Udayapur 15 <input type="radio"/> Saptari 16 <input type="radio"/> Siraha  <a href="#">And 59 other symbols [1]</a>
4. EA	NUMERIC: INTEGER <span style="float: right;">EA</span> -----
5. LOCALITY	SINGLE-SELECT <span style="float: right;">LOCALITY</span> 01 <input type="radio"/> Urban 02 <input type="radio"/> Rural
6. Household ID	NUMERIC: INTEGER <span style="float: right;">HH_ID</span> -----

## INTERVIEW DETAILS

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### INTERVIEW DETAILS INITIAL MEET AND GREET / HOUSEHOLD CONSENT

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STATIC TEXT

Namastey My name is ..... and I am from Solutions Consultant- a market research consulting firm based at Kathmandu (Uttardhoka, Lazimpat). Currently, we are conducting a national survey all over Nepal in collaboration with World Bank in which we are gathering information regarding your electricity consumption and coping activities when power is not available in your community. Your response is very important to give the policy makers the information to make informed decisions in order to improve electricity services that can help people like you. We would like to assure you that all the responses will be analyzed in an aggregate form; used only for this survey and kept highly confidential. If you have any queries regarding this survey, please do not hesitate to contact Ms Dipa Shrestha (01-4001095). So, would you please spare some time to participate in this survey?

Are you willing to Proceed with the survey?	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	CONSENT
7. Name of Household Head	TEXT	HH_HEAD_NAME
E CONSENT == 1	.....	
8. Language of interview	SINGLE-SELECT 01 <input type="radio"/> English 02 <input type="radio"/> Nepali	LANGUAGE
E CONSENT == 1		
11. Enumerator ID	NUMERIC: INTEGER	ENUM_ID
E CONSENT == 1	-----	
Supervisor ID	NUMERIC: INTEGER SCOPE: SUPERVISOR	SUP_ID
E CONSENT == 1	-----	
Date of Interview DD/MM/YY	DATE	DATE INTERVIEW
E CONSENT == 1	.....	
Start Time	DATE: CURRENT TIME	START_TIME
E CONSENT == 1	.....	

STATIC TEXT

E CONSENT == 1

**IN ORDER TO MAKE A COMPREHENSIVE LIST OF INDIVIDUALS CONNECTED TO THE HOUSEHOLD, USE THE FOLLOWING PROBE QUESTIONS:** First, give me the names of all the members of your immediate family who normally live and eat their meals together here for the last 6 months. WRITE DOWN NAMES, SEX, AND RELATIONSHIP TO HH HEAD (Q2 - Q4). LIST HOUSEHOLD HEAD ON LINE 1. Then, give me the names of any other persons related to you or other household members who normally live and eat their meals together here. FILL IN Q2 - Q4. Are there any other persons not here now who normally live and eat their meals here? For example, household members studying elsewhere or traveling. FILL IN Q2 - Q4. Then, give me the names of any other persons not related to you or other household members, but who normally live and eat their meals together here, such as servants, lodgers, or other who are not relatives. FILL IN Q2 - Q4. DO NOT LIST HOUSEHELP WHO HAVE A HOUSEHOLD ELSEWHERE, AND GUESTS WHO ARE VISITING TEMPORARILY AND HAVE A HOUSEHOLD ELSEWHERE. IF MORE THAN 20 INDIVIDUALS, USE SECOND QUESTIONNAIRE.

## A. HOUSEHOLD ROSTER

Please tell us the number of household member in your family.	NUMERIC: INTEGER	HH_MEMBER_NUMBER
I Make a complete list of all individuals who normally live and eat their meals together in this household, starting with the head of household.	-----	

A. HOUSEHOLD ROSTER

Roster: A. HOUSEHOLD ROSTER PERSON:

generated by numeric question [HH\\_MEMBER\\_NUMBER](#)

HH\_ROSTER

<p>A1. Individual ID</p>	<p>NUMERIC: INTEGER <span style="float: right;">A1</span></p> <p>-----</p>
<p>A2. Name</p> <p>I Enumerator: First then Last Name</p>	<p>TEXT <span style="float: right;">A2</span></p> <p>-----</p>
<p>A3. %A2% male or female?</p>	<p>SINGLE-SELECT <span style="float: right;">A3</span></p> <p>01 <input type="radio"/> Male</p> <p>02 <input type="radio"/> Female</p>
<p>A4. What is the relationship of %A2% to household head?</p> <p>V1 (self==1&amp;&amp;HH_ROSTER.Count(x=&gt;x.A4==1)==1)    self!=1</p> <p>M1 There can only be one household head! Please check!</p>	<p>SINGLE-SELECT <span style="float: right;">A4</span></p> <p>01 <input type="radio"/> Head</p> <p>02 <input type="radio"/> Wife/Spouse</p> <p>03 <input type="radio"/> Child/adopted child</p> <p>04 <input type="radio"/> Grandchild</p> <p>05 <input type="radio"/> Niece/Nephew</p> <p>06 <input type="radio"/> Father/Mother</p> <p>07 <input type="radio"/> Sister/Brother</p> <p>08 <input type="radio"/> Son/Daughter-in-law</p> <p>09 <input type="radio"/> Brother/Sister-in-law</p> <p>10 <input type="radio"/> Father/Mother-in-law</p> <p>11 <input type="radio"/> Grandfather/mother</p> <p>12 <input type="radio"/> Other relative</p> <p>13 <input type="radio"/> Servant/servant's relative</p> <p>14 <input type="radio"/> Other non-relative</p>
<p>A5. How old is %A2%?</p> <p>I YEARS, Enumerator: Record "0" if infant below 1 year old.</p> <p>V1 self &lt;= 100</p> <p>M1 Please enter less than or equal to 100.</p>	<p>NUMERIC: INTEGER <span style="float: right;">A5</span></p> <p>-----</p>
<p>A6. ENUMERATOR: Is %A2% 5 years old or older?</p> <p>E A5 &gt;= 5</p>	<p>SINGLE-SELECT <span style="float: right;">A6</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>A7. Has %A2% ever attended school?</p> <p>E A6 == 1</p>	<p>SINGLE-SELECT <span style="float: right;">A7</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>A8. Is %A2% currently attending school?</p> <p>E A7 == 1</p>	<p>SINGLE-SELECT <span style="float: right;">A8</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>A9. What is the highest educational qualification acquired by %A2%?</p> <p>E A7 == 1</p>	<p>SINGLE-SELECT <span style="float: right;">A9</span></p> <p>02 <input type="radio"/> Primary</p> <p>03 <input type="radio"/> Secondary</p> <p>04 <input type="radio"/> Higher Secondary</p> <p>05 <input type="radio"/> Vocational/ Technical School</p> <p>06 <input type="radio"/> Graduate</p> <p>07 <input type="radio"/> Post-Grad</p>
<p>A9A. How many years of %A9% has %A2% completed? -YEARS</p> <p>I Class</p> <p>E A7 == 1</p> <p>V1 self &lt; A5</p>	<p>NUMERIC: INTEGER <span style="float: right;">A9A</span></p> <p>-----</p>

M1 Please enter less than age.	
<p>A10. ENUMERATOR: Is %A2% 12 years or older?</p> <p>E A6 == 1</p>	<p>SINGLE-SELECT <span style="float: right;">A10</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>A11. What is %A2%'s marital status?</p> <p>E A10 == 1</p> <p>V1 A4 ==1 &amp;&amp; HH_ROSTER.Any(x=&gt;x.A4==2)? self == 1: true</p> <p>M1 Marital status of head of household with spouse must be married.</p> <p>V2 A4==2 &amp;&amp; self == 1    A4!=2</p> <p>M2 Spouse to to the head of household must be married</p>	<p>SINGLE-SELECT <span style="float: right;">A11</span></p> <p>01 <input type="radio"/> Married</p> <p>02 <input type="radio"/> Cohabiting</p> <p>03 <input type="radio"/> Never Married</p> <p>04 <input type="radio"/> Divorced</p> <p>05 <input type="radio"/> Separated</p> <p>06 <input type="radio"/> Widowed</p>
<p>A12. How frequently does %A2% cook food for the household?</p> <p>E A10 == 1</p>	<p>SINGLE-SELECT <span style="float: right;">A12</span></p> <p>01 <input type="radio"/> Everyday</p> <p>02 <input type="radio"/> A few times in a week</p> <p>03 <input type="radio"/> Once a week</p> <p>04 <input type="radio"/> A few times in a month</p> <p>05 <input type="radio"/> Once a month</p> <p>06 <input type="radio"/> Never</p>
<p>A13. Is %A2%15 years or older?</p> <p>E A10 == 1</p>	<p>SINGLE-SELECT <span style="float: right;">A13</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>A14. What was %A2%'s main occupation for the last 12 months?</p> <p>E A13 == 1</p>	<p>SINGLE-SELECT <span style="float: right;">A14</span></p> <p>001 <input type="radio"/> Wage/Salaried Employee, Non-Farm</p> <p>002 <input type="radio"/> Wage/Salaried Employee, Farm</p> <p>003 <input type="radio"/> Self-Employed Non-Farm-Business enterprise</p> <p>004 <input type="radio"/> Self-Employed Non-Farm-Independent contractor, technician, professional, etc</p> <p>005 <input type="radio"/> Self-Employed Agriculture/Livestock</p> <p>006 <input type="radio"/> Assistance in family enterprise</p> <p>007 <input type="radio"/> Casual/Day Laborer</p> <p>008 <input type="radio"/> Intern/free labor/voluntary work</p> <p>009 <input type="radio"/> Student</p> <p>010 <input type="radio"/> Retired/pensioner</p> <p>011 <input type="radio"/> Too old to work</p> <p>012 <input type="radio"/> Disabled</p> <p>013 <input type="radio"/> Job Seeker</p> <p>014 <input type="radio"/> Unemployed</p> <p>015 <input type="radio"/> House wife/husband</p> <p>555 <input type="radio"/> Other</p>
<p>A14. Specify Others</p> <p>E A14 == 555</p>	<p>TEXT <span style="float: right;">A14_SO</span></p> <p>.....</p>
<p>A16. Out of the last 12 months,how many months were you engaged in this activity?</p> <p>E A14.InList(1,2,3,4,5,6,7,8,555)</p> <p>V1 self &lt; 13</p> <p>M1 Enter less than or equal to 12.</p>	<p>NUMERIC: INTEGER <span style="float: right;">A16</span></p> <p>-----</p>



<p>A17. How many days per month does %A2% work in this activity?</p> <p>E A14.InList (1,2,3,4,5,6,7,8,555)</p> <p>V1 self &lt; 33</p> <p>M1 Enter below or equal to 32.</p>	<p>NUMERIC: INTEGER <span style="float: right;">A17</span></p> <p>-----</p>
<p>A18. Does %A2% operate any non-agricultural/ business/ enterprise within this household or compound?</p> <p>E A14.InList (1,2,3,4,5,6,7,8,555)</p>	<p>SINGLE-SELECT <span style="float: right;">A18</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>A19. How many employees does this business/ enterprise have?</p> <p>I Number of employees including full time and Part time</p> <p>E A18 == 1</p>	<p>NUMERIC: INTEGER <span style="float: right;">A19</span></p> <p>-----</p>

## B.HOUSEHOLD CHARACTERISTICS

<p>B1. Enumerator: Record name of respondent for this section</p> <p>I Individual name from Household Roster</p>	<p>SINGLE-SELECT: LINKED <span style="float: right;">B1</span></p>
<p>B2. Does your household live in this dwelling for the entire year?</p>	<p>SINGLE-SELECT <span style="float: right;">B2</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>B3. Is this your main dwelling?</p> <p>I The dwelling that you live in for most of the year.</p> <p>E B2 == 2</p>	<p>SINGLE-SELECT <span style="float: right;">B3</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>B4. How many years have you been living in this community?</p> <p>I Record 1 if less than 1.</p> <p>V1 self &lt;= 100</p> <p>M1 Too Large. Please Check</p>	<p>NUMERIC: INTEGER <span style="float: right;">B4</span></p> <p>-----</p>
<p>B5. What is the type of dwelling?</p> <p>I (Enumerator, check with observation)</p>	<p>SINGLE-SELECT <span style="float: right;">B5</span></p> <p>001 <input type="radio"/> A single house occupied by one household dwelling</p> <p>002 <input type="radio"/> A house occupied by multiple households</p> <p>003 <input type="radio"/> Multi-storied building with one household</p> <p>004 <input type="radio"/> Multi-storied building with more households</p> <p>005 <input type="radio"/> Group of enclosed dwellings: multiple households</p> <p>006 <input type="radio"/> Group of enclosed dwellings occupied by a single household</p> <p>555 <input type="radio"/> Other, specify</p>
<p>B5. Others Specify</p> <p>E B5 == 555</p>	<p>TEXT <span style="float: right;">B5 SO</span></p> <p>-----</p>
<p>B6. How many households share your dwelling?</p>	<p>NUMERIC: INTEGER <span style="float: right;">B6</span></p> <p>-----</p>

<p>I Number of households E B5.InList (2, 4, 5, 555)</p>	
<p>B7. Do you own this dwelling?</p>	<p>SINGLE-SELECT <span style="float: right;">B7</span> 01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>B8. Do you use it for free or rent it? E B7 == 2</p>	<p>SINGLE-SELECT <span style="float: right;">B8</span> 01 <input type="radio"/> Free 02 <input type="radio"/> Rented</p>
<p>B9. How many rooms (excluding the kitchen, toilet, and bathroom) does the household occupy? I Record number of rooms E B8 == 2</p>	<p>NUMERIC: INTEGER <span style="float: right;">B9</span> -----</p>
<p>B10.The walls of the dwelling are mainly made of what material? I Check with observation</p>	<p>SINGLE-SELECT <span style="float: right;">B10</span> 001 <input type="radio"/> Wood and mud 002 <input type="radio"/> Wood and thatch 003 <input type="radio"/> Wood only 004 <input type="radio"/> Stone only 005 <input type="radio"/> Stone and mud 006 <input type="radio"/> Stone and cement 007 <input type="radio"/> Blocks, plastered with cement 008 <input type="radio"/> Blocks, unplastered 009 <input type="radio"/> Bricks and Cement 010 <input type="radio"/> Mud bricks (traditional) 011 <input type="radio"/> Steel 012 <input type="radio"/> Cargo container 013 <input type="radio"/> Parquet or polished wood 014 <input type="radio"/> Chip wood 015 <input type="radio"/> Corrugated iron sheet 016 <input type="radio"/> Asbestos  <a href="#">And 2 other symbols [2]</a></p>
<p>B10. Others Specify E B10 == 555</p>	<p>TEXT <span style="float: right;">B10 SO</span> -----</p>
<p>B11. The roof of the dwelling is mainly made of what material? I Check with observation</p>	<p>SINGLE-SELECT <span style="float: right;">B11</span> 001 <input type="radio"/> Wood and mud 002 <input type="radio"/> Wood and thatch 003 <input type="radio"/> Stone 004 <input type="radio"/> Brick/Roof tiles 005 <input type="radio"/> Corrugated iron sheet 006 <input type="radio"/> Asbestos 007 <input type="radio"/> Reed/bamboo 008 <input type="radio"/> Plastic/ canvas 009 <input type="radio"/> Concrete 555 <input type="radio"/> Other, specify</p>
<p>B11. Others Specify E B11 == 555</p>	<p>TEXT <span style="float: right;">B11 SO</span> -----</p>
<p>B12. The floor of the dwelling is mainly made of what material?</p>	<p>SINGLE-SELECT <span style="float: right;">B12</span></p>

<p>I Check with observation</p>	<p>001 <input type="radio"/> Mud/Dung  002 <input type="radio"/> Reed/bamboo  003 <input type="radio"/> Wood planks  004 <input type="radio"/> Parquet or polished wood  005 <input type="radio"/> Cement screed  006 <input type="radio"/> Plastic tiles  007 <input type="radio"/> Cement tiles  008 <input type="radio"/> Brick tiles  009 <input type="radio"/> Ceramic/Marble tiles  555 <input type="radio"/> Other, specify</p>
<p>B12. Specify Others</p> <p>E B12 == 555</p>	<p>TEXT <span style="float: right;">B12_SO</span></p> <p>.....</p>
<p>B13. What type of toilet facility does your household use?</p> <p>I Multiple responses possible.</p>	<p>MULTI-SELECT <span style="float: right;">B13</span></p> <p>001 <input type="checkbox"/> None (open field)  002 <input type="checkbox"/> Flush to sewage  003 <input type="checkbox"/> Flush to septic tank  004 <input type="checkbox"/> Pail/Bucket  005 <input type="checkbox"/> Covered pit latrine  006 <input type="checkbox"/> Uncovered pit latrine  007 <input type="checkbox"/> Community latrine  555 <input type="checkbox"/> Other, specify</p>
<p>B13. Specify Others</p> <p>E B13.Contains(555)</p>	<p>TEXT <span style="float: right;">B13_SO</span></p> <p>.....</p>
<p>B14. What is your household's main source of drinking water?</p>	<p>SINGLE-SELECT <span style="float: right;">B14</span></p> <p>001 <input type="radio"/> Pipe borne water treated  002 <input type="radio"/> Pipe borne water untreated  003 <input type="radio"/> Bore hole/ hand pump  005 <input type="radio"/> Well/spring protected  006 <input type="radio"/> Well/spring unprotected  007 <input type="radio"/> River/spring  008 <input type="radio"/> Lake/reservoir  009 <input type="radio"/> Rain water  010 <input type="radio"/> Tanker/truck/vendor  011 <input type="radio"/> Bottle/Jar water  555 <input type="radio"/> Other, specify</p>
<p>B14. Specify Others</p> <p>E B14 == 555</p>	<p>TEXT <span style="float: right;">B14_SO</span></p> <p>.....</p>
<p>B15. Do you treat water for drinking purpose (chemical treatment)?</p>	<p>SINGLE-SELECT <span style="float: right;">B15</span></p> <p>001 <input type="radio"/> Yes  002 <input type="radio"/> No  888 <input type="radio"/> Don't know</p>
<p>B16. Does anyone in the household have an account at a financial institution?</p>	<p>SINGLE-SELECT <span style="float: right;">B16</span></p> <p>01 <input type="radio"/> Yes  02 <input type="radio"/> No</p>
<p>B17. At which institution is this account or savings?</p> <p>E B16 == 1</p>	<p>MULTI-SELECT <span style="float: right;">B17</span></p> <p>001 <input type="checkbox"/> Commercial bank (including Development Banks and finance companies )</p>

	002 <input type="checkbox"/> Cooperative (saving and credit cooperative) 003 <input type="checkbox"/> Microfinance institution 555 <input type="checkbox"/> Other, specify	
<b>B17. Specify Others</b>	TEXT	B17_SO
E B17.Contains (555)	.....	
<b>B18. Does anyone in the household have an account at an informal institution?</b>	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	B18
<b>B19. At which informal institution is this account?</b>	MULTI-SELECT 001 <input type="checkbox"/> Group savings (rotational) 002 <input type="checkbox"/> Group savings (one-time disbursement) 555 <input type="checkbox"/> Other, specify	B19
I Multiple responses possible E B18 == 1		
<b>Specify Others</b>	TEXT	B19_SO
E B19.Contains (555)	.....	
<b>B20. If you can get a loan/credit, what are the sources of credit/loans?</b>	MULTI-SELECT 001 <input type="checkbox"/> Commercial/government bank 002 <input type="checkbox"/> Saving and Credit Cooperative 003 <input type="checkbox"/> Microfinance institution 004 <input type="checkbox"/> Rural bank 006 <input type="checkbox"/> NGO 007 <input type="checkbox"/> Business firm 008 <input type="checkbox"/> Employer 009 <input type="checkbox"/> Moneylender 010 <input type="checkbox"/> Shop 011 <input type="checkbox"/> Relative/friend/neighbor 012 <input type="checkbox"/> Mobile money services 013 <input type="checkbox"/> Cannot get a loan/credit 555 <input type="checkbox"/> Other, specify	B20
I Multiple responses possible		
<b>B20. Specify Others</b>	TEXT	B20_SO
E B20.Contains (555)	.....	
<b>B21. Do you have a mobile money account?</b>	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	B21
<b>B22. Do you use mobile money to make payments over the mobile phone?</b>	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	B22
E B21 == 1		
<b>B23. Have you used the account in the past 90 days?</b>	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	B23
E B21 == 1		
<b>B24.How do you use the mobile money services?</b>	MULTI-SELECT 001 <input type="checkbox"/> Receive money from family/friends/other 002 <input type="checkbox"/> Transfer credit to family/relatives 003 <input type="checkbox"/> Top up credit	B24
I Multiple responses possible E B21 == 1		

- 004  Receive NGO/State support
- 005  Pay for Electricity
- 006  Pay for Water
- 007  Internet top-up/credit
- 008  Commercial purchases
- 009  Insurance
- 010  Loan payments
- 011  Savings
- 012  Get small loans from mobile provider
- 555  Other, specify

B24. Specify Others	TEXT <span style="float: right;">B24 SO</span>
E B24.Contains(555)	.....

## C. SUPPLY AND DEMAND OF ELECTRICITY

STATIC TEXT

*Instructions: This module should be completed by the most knowledgeable member on household electricity. Concerted answers should be allowed.*

Enumerator: Now, we would need to talk to the most knowledgeable member on household electricity. Who would that person be?	SINGLE-SELECT: LINKED <span style="float: right;">C_WHO</span>
F HH_ROSTER.Any(x=>x.A5>=2)	
Is <b>%C_WHO%</b> available now?	SINGLE-SELECT <span style="float: right;">C_AVAILABLE</span> 01 <input type="radio"/> Yes 02 <input type="radio"/> No
Enumerator: Record Date and Time for next meeting if the respondent is not currently available.	TEXT <span style="float: right;">C_DATE_TIME</span> .....
E C_AVAILABLE == 2	

### C. SUPPLY AND DEMAND OF ELECTRICITY ELECTRICITY FROM NATIONAL GRID

C2. Is the household connected to the national grid?	SINGLE-SELECT <span style="float: right;">C2</span> 01 <input type="radio"/> Yes 02 <input type="radio"/> No
C3.How far is your house from the nearest national grid line?  I Meters,Do not know... 888 E C2 == 2 V1 self <= 150000    self == 888 M1 Entered number is too far. Check again.	NUMERIC: INTEGER <span style="float: right;">C3</span> -----
C4. What is the MAIN reason why your household is not connected to the grid?  I Record the MAIN reason. E C2 == 2	SINGLE-SELECT <span style="float: right;">C4</span> 001 <input type="radio"/> Grid is too far from household/not available 002 <input type="radio"/> Cost of initial connection is too expensive

- 003  Monthly fee is too expensive
- 004  Satisfied with current energy solution
- 005  Renting, Landlord decision
- 006  Service Unreliable
- 007  Administrative procedure is too complicated
- 008  Submitted application and waiting for connection
- 009  Company refused to connect the household
- 555  Other, specify

<p><b>C4. Specify Others</b></p> <p>E C4 == 555</p>	<p>TEXT <span style="float: right;">C4_SO</span></p> <p>.....</p>
<p><b>C5. Do you expect to get grid connection?</b></p> <p>E C2 == 2</p>	<p>SINGLE-SELECT <span style="float: right;">C5</span></p> <p>001 <input type="radio"/> Yes</p> <p>999 <input type="radio"/> Don't expect to get grid connection</p> <p>888 <input type="radio"/> Don't know</p>
<p><b>C6. When do you expect to get grid connection?</b></p> <p>E C5 == 1</p>	<p>SINGLE-SELECT <span style="float: right;">C6</span></p> <p>001 <input type="radio"/> Upto 6 months</p> <p>002 <input type="radio"/> 6 months to 1 year</p> <p>003 <input type="radio"/> 1 year to 2 years</p> <p>004 <input type="radio"/> More than 2 years</p> <p>888 <input type="radio"/> Don't know</p>
<p><b>C7. Who is the service provider of the grid connection?</b></p> <p>E C2 == 1</p>	<p>SINGLE-SELECT <span style="float: right;">C7</span></p> <p>01 <input type="radio"/> Nepal Electricity Authority (NEA)</p> <p>02 <input type="radio"/> Other Private Electricity Providers</p>
<p><b>C8. How many years have you had this grid connection?</b></p> <p>I Record in years, if less than 1 year record 1 . . Dont know=888</p> <p>E C2 == 1</p> <p>V1 C8 &lt; 101    self == 888</p> <p>M1 Too much. Please check.</p>	<p>NUMERIC: DECIMAL <span style="float: right;">C8</span></p> <p>-----</p>
<p><b>C9. How much did your household pay for the grid connection fee?</b></p> <p>I Don't know.....888 Household was already connected.....111 , Refer to connection fee ONLY.</p> <p>E C2 == 1</p> <p>V1 self &lt; 10000000    self == 888</p> <p>M1 Too much. Please check or if don't know enter 888.</p>	<p>NUMERIC: INTEGER <span style="float: right;">C9</span></p> <p>-----</p>
<p><b>C9.A. How much did your household pay for any additional connection costs (external wiring, poles etc.)?</b></p> <p>I Do not include the connection fee from C.9 here, NPR Don't know.....888</p> <p>E C9 != 111 &amp;&amp; C2 == 1</p>	<p>NUMERIC: INTEGER <span style="float: right;">C9 A</span></p> <p>-----</p>
<p><b>C10. How much did your household pay for the internal wiring fee? - Local currency</b></p> <p>I Don't know.....888, Do not include the connection fee from % C9% here</p>	<p>NUMERIC: INTEGER <span style="float: right;">C10</span></p> <p>-----</p>

<p>E C9 != 111 &amp;&amp; C2 == 1</p> <p><b>C11. How many weeks after you applied for the grid connection did your household get connected? (Insert 0 if immediate) -Number of weeks</b></p> <p>I Don't know.....888</p> <p>E C9 != 111 &amp;&amp; C2 == 1</p> <p>V1 self &lt; 53    self == 888</p> <p>M1 Too many weeks. if don't know please enter 888.</p>	<p>NUMERIC: INTEGER C11</p> <p>-----</p>
<p><b>C12.How many days after you were connected were you able to use electricity in your home?</b></p> <p>I Number of days,(Insert 0 if immediate), Don't know.....888</p> <p>E C9 != 111 &amp;&amp; C2 == 1</p> <p>V1 self &lt; 101    self == 888</p> <p>M1 Too long . Please check.</p>	<p>NUMERIC: INTEGER C12</p> <p>-----</p>
<p><b>C13. Who receives the payment for your electricity service?</b></p> <p>E C2 == 1</p>	<p>SINGLE-SELECT C13</p> <p>001 <input type="radio"/> Energy company for eg.: NEA, BPC</p> <p>003 <input type="radio"/> Community/village/municipality</p> <p>004 <input type="radio"/> Relative</p> <p>005 <input type="radio"/> Neighbor</p> <p>006 <input type="radio"/> Landlord</p> <p>007 <input type="radio"/> No one</p> <p>555 <input type="radio"/> Other, specify</p>
<p><b>C13. Specify Others</b></p> <p>E C13 == 555</p>	<p>TEXT C13_SO</p> <p>-----</p>
<p><b>C14.Does your household have an electric meter/sub-meter?</b></p> <p>E C13.InList(1,3,4,5,6,555) &amp;&amp; C2 == 1</p>	<p>SINGLE-SELECT C14</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p><b>C15.What is the capacity of the meter/sub-meter?</b></p> <p>I Ampere, Please take reference from electricity bill or from meter-box.</p> <p>E C14 == 1 &amp;&amp; C2 == 1</p>	<p>NUMERIC: INTEGER C15</p> <p>-----</p>
<p><b>C17. Does your household share the electric meter/sub-meter?</b></p> <p>E C14 == 1 &amp;&amp; C2 == 1</p>	<p>SINGLE-SELECT C17</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p><b>C18. How many households are sharing the meter/sub meter?</b></p> <p>I Number of Households</p> <p>E C17 == 1 &amp;&amp; C2 == 1</p> <p>V1 self &lt; 31</p> <p>M1 Too many household. Please check.</p>	<p>NUMERIC: INTEGER C18</p> <p>-----</p>
<p><b>C19. How are you billed for electricity?</b></p> <p>I Read options aloud</p> <p>E C13.InList(1,2,3,4,5,6,555) &amp;&amp; C2 == 1</p>	<p>SINGLE-SELECT C19</p> <p>001 <input type="radio"/> Fixed monthly fee</p> <p>002 <input type="radio"/> Pay based on lights and appliances used</p> <p>003 <input type="radio"/> Utility estimates consumption</p> <p>555 <input type="radio"/> Other, specify</p> <p>111 <input type="radio"/> No bill for electricity</p>

<p>C19. Specify Others</p> <p>E C19 == 555</p>	<p>TEXT</p> <p style="text-align: right;">C19_SO</p> <p>.....</p>
<p>C20. How do you make your electricity bill payment?</p> <p>E C13.InList(1,2,3,4,5,6,555) &amp;&amp; C2 == 1</p>	<p>SINGLE-SELECT</p> <p style="text-align: right;">C20</p> <p>001 <input type="radio"/> Cash</p> <p>002 <input type="radio"/> Credits using mobile money</p> <p>003 <input type="radio"/> Credit, using other ways</p> <p>555 <input type="radio"/> Other, specify</p>
<p>C20. Specify Others</p> <p>E C20 == 555</p>	<p>TEXT</p> <p style="text-align: right;">C20_SO</p> <p>.....</p>
<p>C21.Where do you make payments?</p> <p>E C13.InList(1,2,3,4,5,6,555) &amp;&amp; C2 == 1</p>	<p>SINGLE-SELECT</p> <p style="text-align: right;">C21</p> <p>001 <input type="radio"/> Local store</p> <p>002 <input type="radio"/> Utility office</p> <p>003 <input type="radio"/> Bank</p> <p>004 <input type="radio"/> Post office</p> <p>555 <input type="radio"/> Other, specify</p>
<p>C21. Specify Other</p> <p>E C21 == 555</p>	<p>TEXT</p> <p style="text-align: right;">C21_SO</p> <p>.....</p>
<p>C22.Enumerator: If the respondent pays the energy company or has a record of the electricity payment, ask to see the electricity bill/invoice and use it for C.23 and C.24 .</p> <p>E C13.InList(1,2,3,4,5,6,555) &amp;&amp; C2 == 1</p>	<p>SINGLE-SELECT</p> <p style="text-align: right;">C22</p> <p>01 <input type="radio"/> Respondent has energy bill and shows it</p> <p>02 <input type="radio"/> Respondent has energy bill but refuses to show it or could not locate it</p> <p>03 <input type="radio"/> Respondent does not have an energy bill</p>
<p>C23.In the last month, how much did you spend on the electric bill?</p> <p>I Don't Know.....888</p> <p>E C22 == 1</p> <p>V1 self &lt; 100000    self == 888</p> <p>M1 Too much. Please check or if don't know enter 888.</p>	<p>NUMERIC: INTEGER</p> <p style="text-align: right;">C23</p> <p>-----</p>
<p>C24. In the last month how much electricity did your household consume?</p> <p>I Quantity in Kilowatt Hour (kWh),Don't Know.....888</p> <p>E C22 == 1</p> <p>V1 self &lt; 100000    self == 888</p> <p>M1 Too much. Please check. or if don't know enter 888.</p>	<p>NUMERIC: INTEGER</p> <p style="text-align: right;">C24</p> <p>-----</p>
<p>C25. In a typical month, how much did you spend on electricity?</p> <p>I Don't know.....888,</p> <p>E C24 &lt; 0    C22 == 3    C22 == 2    C13 == 7</p> <p>V1 self &gt;= 30    self &lt; 100000    self == 888</p> <p>M1 Amount iseither too small or too high. Please check again. or if don't know enter 888.</p>	<p>NUMERIC: INTEGER</p> <p style="text-align: right;">C25</p> <p>-----</p>
<p>C26. Are there certain months/seasons every year when the household experiences bad electricity service from the national grid?</p> <p>E C2 == 1</p>	<p>SINGLE-SELECT</p> <p style="text-align: right;">C26</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C27. What are the worst months for service</p>	<p>MULTI-SELECT: YES/NO</p> <p style="text-align: right;">C27</p>



from the grid?

I Multiple responses are possible.

E C26 == 1

V1 (self.Yes.Contains(888) && !self.Yes.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12)) || (!self.Yes.Contains(888) && self.Yes.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12))

M1 Select either don't know or other options.

- 001  /  13th April-13th May
- 002  /  14th May-14th June
- 003  /  15th June-15th July
- 004  /  16th July-16th August
- 005  /  17th August-16th September
- 006  /  17th September-16th October
- 007  /  17th October-15th November
- 008  /  16th November-15th December
- 009  /  16th December-13th January
- 010  /  14th January-11th February
- 011  /  12th February-13th March
- 012  /  14th March-13th April
- 888  /  Don't Know

STATIC TEXT

E C2 == 1

*Ask respondent first about the worst months and then about a typical month for C29 to C34 If no seasonal changes, ask only about a typical month. Ask questions by ROW.*

C28. Do you receive information about a "load-shedding" schedule (load shedding is the set hours of electricity NOT available from the grid)?

SINGLE-SELECT

C28

- 01  Yes
- 02  No

E C2 == 1

C. SUPPLY AND DEMAND OF ELECTRICITY / ELECTRICITY FROM NATIONAL GRID  
A.WORST MONTHS

E C26 == 1

C29. How many hours of electricity are available each day and night from the grid? (max 24 hours) -hours

NUMERIC: DECIMAL

C29\_A

-----

I Don't know.....888

V1 self < 25 || self == 888

M1 Please enter less than or equal to 24 or 888.

C30. How many hours of electricity are available each evening, from 6:00 pm to 10:00 pm from the grid? (max 4 hours)-hours

NUMERIC: DECIMAL

C30\_A

-----

I Don't know.....888

V1 self < 5 || self == 888

M1 Please enter less than or equal to 4 or 888.

C31. How many hours of electricity do you use each day and night from the grid?

NUMERIC: DECIMAL

C31\_A

-----

I Don't know.....888

V1 self <= C29\_A || self == 888

M1 Please enter less than or equal to %C29\_A% or 888 for don't know

C32. How many outages/blackouts occur in a week?

NUMERIC: DECIMAL

C32\_A

-----

I No outages/blackouts.....111 Don't know.....888

C33. What is the total duration of all the outages/blackouts in a week?:Hour

NUMERIC: INTEGER

C33\_A HOUR

-----

I Hour, Don't know.....888

E C32\_A != 111

V1 self <= 168    self == 888 M1 Please enter less than or equal to 24 or 888.	
<b>C33. What is the total duration of all the outages/blackouts in a week?:Minutes</b>  I Minute, Don't know.....888 E C32_A != 111 V1 self < 60    self == 888 M1 Please enter less than 59 or 888.	NUMERIC: INTEGER <span style="float: right;">C33_A_MINUTES</span>  -----

C. SUPPLY AND DEMAND OF ELECTRICITY / ELECTRICITY FROM NATIONAL GRID  
**B. TYPICAL MONTH**

E C2 == 1

<b>C29. How many hours of electricity are available each day and night from the grid? (max 24 hours)</b>  I Don't know.....888 V1 self < 25    self == 888 M1 Please enter less than or equal to 24 or 888.	NUMERIC: INTEGER <span style="float: right;">C29_B</span>  -----
<b>C30. How many hours of electricity are available each evening, from 6:00 pm to 10:00 pm from the grid? (max 4 hours)</b>  I Don't know.....888 V1 self < 5    self == 888 M1 Please enter less than or equal to 4 or if don't know enter 888.	NUMERIC: INTEGER <span style="float: right;">C30_B</span>  -----
<b>C31. How many hours of electricity do you use each day and night from the grid? Cannot exceed number of available hours in C.29</b>  I Don't know.....888 V1 self <= C29_B    self == 888 M1 Please enter less than or equal to %C29_B%. or 888 for don't know	NUMERIC: INTEGER <span style="float: right;">C31_B</span>  -----
<b>C32. How many outages/blackouts occur in a week?</b>  I No outages/blackouts.....111 Don't know.....888	NUMERIC: INTEGER <span style="float: right;">C32_B</span>  -----
<b>C33.What is the total duration of all the outages/blackouts in a week?:Hour</b>  I Hour, Don't know.....888 E C32_B != 111 V1 self <= 168    self == 888 M1 Please enter less than or equal to 24 or 888.	NUMERIC: INTEGER <span style="float: right;">C33_B_HOUR</span>  -----
<b>C33.What is the total duration of all the outages/blackouts in a week?:Minutes</b>  I Minute, Don't know.....888 E C32_B != 111 V1 self < 60    self == 888 M1 Please enter less than 59 or 888.	NUMERIC: INTEGER <span style="float: right;">C33_B_MINUTES</span>  -----
<b>C34.What is your main back-up source of lighting during outages/blackouts of the grid?</b>  E C2 == 1	SINGLE-SELECT <span style="float: right;">C34</span> 001 <input type="radio"/> Electric generator 002 <input type="radio"/> Rechargeable battery and storage devices (e.g.: car battery) 003 <input type="radio"/> Solar Lantern (single light)

	<ul style="list-style-type: none"> <li>004 <input type="radio"/> Solar -Lighting System (2+ lights with cell phone charging and/or radio)</li> <li>005 <input type="radio"/> Solar Home System (2+ lights with cell phone charging, and TV/fan/fridge)</li> <li>006 <input type="radio"/> Pico-hydro</li> <li>007 <input type="radio"/> Kerosene lamp</li> <li>008 <input type="radio"/> Fuel-based lighting</li> <li>009 <input type="radio"/> Dry-cell (non-rechargeable) battery/ Torch/ Flashlight</li> <li>010 <input type="radio"/> Candle</li> <li>555 <input type="radio"/> Other, specify</li> <li>111 <input type="radio"/> No back-up source</li> </ul>
<p>C34. Specify Others</p> <p>E C34 == 555</p>	<p>TEXT <span style="float: right;">C34 SO</span></p> <p>-----</p>
<p>C35. What is your main back-up source of electricity for appliances (including mobile phone charging) during outages/blackouts of the grid?</p> <p>E C2 == 1</p>	<p>SINGLE-SELECT <span style="float: right;">C35</span></p> <ul style="list-style-type: none"> <li>002 <input type="radio"/> Electric Generator</li> <li>003 <input type="radio"/> Rechargeable battery and storage devices (e.g.: car battery)</li> <li>004 <input type="radio"/> Solar Lantern (single light)</li> <li>005 <input type="radio"/> Solar -Lighting System (2+ lights with cell phone charging and/or radio)</li> <li>006 <input type="radio"/> Solar Home System (2+ lights with cell phone charging, and TV/fan/fridge)</li> <li>007 <input type="radio"/> Pico-hydro</li> <li>555 <input type="radio"/> Other, specify</li> <li>111 <input type="radio"/> No back-up source</li> </ul>
<p>C35. Specify Others</p> <p>E C35 == 555</p>	<p>TEXT <span style="float: right;">C35 SO</span></p> <p>-----</p>
<p>C36. How do you request for repairs in electricity service or file a complaint?</p> <p>E C2 == 1</p>	<p>SINGLE-SELECT <span style="float: right;">C36</span></p> <ul style="list-style-type: none"> <li>001 <input type="radio"/> Call utility company</li> <li>002 <input type="radio"/> Call a local technician</li> <li>003 <input type="radio"/> Send a letter/email</li> <li>004 <input type="radio"/> Social media</li> <li>005 <input type="radio"/> Talk to community representative</li> <li>006 <input type="radio"/> No system to request repairs/file complaint</li> <li>555 <input type="radio"/> Other, specify</li> </ul>
<p>C36. Specify Others</p> <p>E C36 == 555</p>	<p>TEXT <span style="float: right;">C36_SO</span></p> <p>-----</p>
<p>C37. When there is a blackout in your community, who do you usually approach for assistance?</p> <p>E C2 == 1</p>	<p>SINGLE-SELECT <span style="float: right;">C37</span></p> <ul style="list-style-type: none"> <li>01 <input type="radio"/> The power company</li> <li>02 <input type="radio"/> Someone not from power company</li> <li>03 <input type="radio"/> No-one: we wait until power returns</li> </ul>
<p>C38. The last time you asked for assistance, how many days after you contacted %C37% did they come to fix the problem?</p>	<p>NUMERIC: DECIMAL <span style="float: right;">C38</span></p> <p>-----</p>

<p>I .....Number of Days Enumerator: If under 24 hours record 0. if "Have not encountered any problem yet enter 111"</p> <p>E (C37 == 2    C37 == 1) &amp;&amp; C2 == 1</p> <p>V1 self &lt; 100    self==111</p> <p>M1 Too many. Please check.</p>	
<p>C39.Do you experience voltage fluctuations from the grid?</p> <p>E (C37 == 2    C37 == 1) &amp;&amp; C2 == 1</p>	<p>SINGLE-SELECT C39</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C40. Have you installed an instrument to prevent damage caused by the voltage fluctuations (eg: stabilizer)?</p> <p>E C39 == 1 &amp;&amp; C2 == 1</p>	<p>SINGLE-SELECT C40</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C41. In the last 12 months, did any of your appliances get damaged because the voltage was going up and down from the grid?</p> <p>E (C39 == 1 &amp;&amp; C2 == 1)    C37 == 3</p>	<p>SINGLE-SELECT C41</p> <p>001 <input type="radio"/> Yes</p> <p>002 <input type="radio"/> No</p> <p>888 <input type="radio"/> Don't know</p>
<p>C42. What are the most serious problems you experience with your grid electricity?</p> <p>I 2 options only, Order matters.</p> <p>E C2 == 1</p>	<p>MULTI-SELECT: ORDERED C42</p> <p>001 <input type="checkbox"/> Supply shortage/not enough hours of electricity</p> <p>002 <input type="checkbox"/> Low/high voltage problems or voltage fluctuations</p> <p>003 <input type="checkbox"/> Unpredictable interruptions</p> <p>004 <input type="checkbox"/> Unexpectedly high bills</p> <p>005 <input type="checkbox"/> High cost of electricity</p> <p>006 <input type="checkbox"/> Do not trust the supplier</p> <p>007 <input type="checkbox"/> Cannot power large appliances</p> <p>008 <input type="checkbox"/> Maintenance/service problems</p> <p>009 <input type="checkbox"/> Unpredictable bills</p> <p>555 <input type="checkbox"/> Other, specify</p> <p>111 <input type="checkbox"/> No problems</p>
<p>C42. Specify Others</p> <p>E C42.Contains (555)</p>	<p>TEXT C42_SO</p> <p>.....</p>
<p>C43.In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the grid electricity (for example, serious bodily injury because of electric shocks, fire/sparks due to short circuit/voltage surge)?</p> <p>E C2 == 1</p>	<p>SINGLE-SELECT C43</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C43.A. What was the reasons for this injury?</p> <p>E C43 == 1</p>	<p>SINGLE-SELECT C43_A</p> <p>001 <input type="radio"/> Carelessness or error</p> <p>002 <input type="radio"/> Lack of knowledge about the use of the appliance</p> <p>003 <input type="radio"/> Faulty wiring or wiring with exposed wires</p> <p>555 <input type="radio"/> Other, specify</p>
<p>C43.A. Specify Others</p> <p>E C43_A == 555</p>	<p>TEXT C43_A_SO</p> <p>.....</p>
<p>C44. Is this household connected to a?</p> <p>E C_AVAILABLE == 1 &amp;&amp; C2 == 2</p>	<p>SINGLE-SELECT C44</p> <p>01 <input type="radio"/> Pico hydro</p>

- 02  Micro/Mini-hydro grid
- 03  Neither pico-hydro nor mini/micro-hydro grid
- 04  Both pico-hydro and mini/micro-hydro grid

C. SUPPLY AND DEMAND OF ELECTRICITY  
%C44%

E C44.InList (1, 2, 4)

<p>C45. What is the name of the pico hydro/mini/micro company?</p> <p>I If both please ask about mini/micro hydro grid.</p>	<p>TEXT C45</p> <p>.....</p>
<p>C46. Is there a limit for the load and/or appliances you are allowed to power from this %C45%?</p>	<p>SINGLE-SELECT C46</p> <p>001 <input type="radio"/> Yes</p> <p>002 <input type="radio"/> No</p> <p>888 <input type="radio"/> Don't Know</p>
<p>C47. How many years have you had this %C45%?</p> <p>I Record in years, if less than 1 year record 1</p> <p>V1 self &lt; 101</p> <p>M1 Too many. Please check.</p>	<p>NUMERIC: INTEGER C47</p> <p>-----</p>
<p>C48. How much did your household pay for the %C45% fee?</p> <p>I Refer to connection cost ONLY, Don't know.....888 Household was already connected.....111</p>	<p>NUMERIC: INTEGER C48</p> <p>-----</p>
<p>C48.A. How much did your household pay for any additional connection costs (external wiring, poles etc.)?</p> <p>I Do not include the connection fee from C.48 here Local currency Don't know.....888</p> <p>E C48 != 111</p>	<p>TEXT C48_A</p> <p>.....</p>
<p>C49. How much did your household pay for the internal wiring?</p> <p>I Don't know.....888 Do not include the connection fee from C.48 here</p> <p>E C48 != 111</p>	<p>NUMERIC: INTEGER C49</p> <p>-----</p>
<p>C50. How many weeks after you applied for the %C45% did your household get connected?</p> <p>I (Insert 0 if immediate)</p> <p>E C48 != 111</p> <p>V1 self &lt; 21</p> <p>M1 Too many. Please check.</p>	<p>NUMERIC: INTEGER C50</p> <p>-----</p>
<p>C51. How many days after you were connected were you able to use electricity in your home? (Insert 0 if immediate)</p> <p>E C48 != 111</p>	<p>NUMERIC: INTEGER C51</p> <p>-----</p>
<p>C52. Have you applied for an upgrade of service since you connected to the %C45%?</p>	<p>SINGLE-SELECT C52</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>

<p>C53. Who receives the payment for your electricity service?</p>	<p>SINGLE-SELECT <span style="float: right;">C53</span></p> <p>001 <input type="radio"/> Energy company</p> <p>002 <input type="radio"/> Private entity</p> <p>003 <input type="radio"/> Community/village/municipality</p> <p>004 <input type="radio"/> Relative</p> <p>005 <input type="radio"/> Neighbor</p> <p>006 <input type="radio"/> Landlord</p> <p>007 <input type="radio"/> No one</p> <p>008 <input type="radio"/> Cooperative</p> <p>009 <input type="radio"/> Respondent is the owner (No one)</p> <p>555 <input type="radio"/> Other, specify</p>
<p>C53. Specify Others</p> <p>E C53 == 555</p>	<p>TEXT <span style="float: right;">C53_SO</span></p> <p>.....</p>
<p>C54. Does your household have an electric meter?</p> <p>E C53 != 7 &amp;&amp; C53 != 9</p>	<p>SINGLE-SELECT <span style="float: right;">C54</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C56. Does your household share the electric meter?</p> <p>E C54 == 1</p>	<p>SINGLE-SELECT <span style="float: right;">C56</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C57. How many households are sharing the meter?</p> <p>E C56 == 1</p> <p>V1 self &lt; 31</p> <p>M1 Too many household.</p>	<p>NUMERIC: INTEGER <span style="float: right;">C57</span></p> <p>-----</p>
<p>C58. How are you billed for electricity?</p> <p>I Read options aloud</p> <p>E C54 == 2</p>	<p>SINGLE-SELECT <span style="float: right;">C58</span></p> <p>001 <input type="radio"/> Fixed monthly fee</p> <p>002 <input type="radio"/> Pay based on lights and appliances used</p> <p>003 <input type="radio"/> Utility estimates consumption</p> <p>555 <input type="radio"/> Other, specify</p> <p>111 <input type="radio"/> No bill for electricity</p>
<p>C58. Specify Others</p> <p>E C58 == 555</p>	<p>TEXT <span style="float: right;">C58_SO</span></p> <p>.....</p>
<p>C59. How do you make your electricity bill payment?</p> <p>E C53 != 7 &amp;&amp; C53 != 9</p>	<p>SINGLE-SELECT <span style="float: right;">C59</span></p> <p>001 <input type="radio"/> Cash</p> <p>002 <input type="radio"/> Credits using mobile money</p> <p>003 <input type="radio"/> Credit, using other ways</p> <p>555 <input type="radio"/> Other, specify</p>
<p>C59. Specify Others</p> <p>E C59 == 555</p>	<p>TEXT <span style="float: right;">C59_SO</span></p> <p>.....</p>
<p>C60. Were you involved in setting the tariff for the %C45%?</p> <p>E C53 != 7 &amp;&amp; C53 != 9</p>	<p>SINGLE-SELECT <span style="float: right;">C60</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C61. How were you involved in the tariff setting?</p>	<p>SINGLE-SELECT <span style="float: right;">C61</span></p> <p>001 <input type="radio"/> Community meeting</p>

<p>E C60 == 1</p>	<p>002 <input type="radio"/> Contacted by mini-grid/pico hydro company  003 <input type="radio"/> Member of electricity committee  004 <input type="radio"/> Member of cooperative  555 <input type="radio"/> Other, specify</p>
<p>C61. Specify Others</p> <p>E C61 == 555</p>	<p>TEXT C61 SO</p> <p>.....</p>
<p>C62. Enumerator: If the respondent pays the energy company or has a record of the electricity payment, ask to see the electricity bill/invoice and use it for C63 and C64.</p> <p>E C53 != 7 &amp;&amp; C53 != 9</p>	<p>SINGLE-SELECT C62</p> <p>01 <input type="radio"/> Respondent has energy bill and shows it  02 <input type="radio"/> Respondent has energy bill but refuses to show it or could not locate it  03 <input type="radio"/> Respondent does not have an energy bill</p>
<p>C63. In the last month, how much did you spend on the electric bill?</p> <p>I Calculate amount paid from the last bill. Don't Know...888, Local Currency</p> <p>E C62 == 1</p> <p>V1 self &lt; 100000    self == 888</p> <p>M1 Too large. Please check. or if don't know enter 888.</p>	<p>NUMERIC: INTEGER C63</p> <p>-----</p>
<p>C64. In the last month how much electricity did your household use?</p> <p>I Don't Know.....888, KWH</p> <p>E C62 == 1    C53 == 7</p>	<p>NUMERIC: INTEGER C64</p> <p>-----</p>
<p>C65. In a typical month, how much did you spend on electricity?</p> <p>I Don't Know.....888</p> <p>E (C64 &lt; 1 &amp;&amp; C62 == 1)    (C62 == 2    C62 == 3)</p> <p>V1 self &lt; 100000    self == 888</p> <p>M1 Too Large, Please check or if don't know enter 888</p>	<p>NUMERIC: INTEGER C65</p> <p>-----</p>
<p>C66. Are there certain months/seasons every year when the household experiences bad electricity service from this mini-grid/pico-grid?</p>	<p>SINGLE-SELECT C66</p> <p>01 <input type="radio"/> Yes  02 <input type="radio"/> No</p>
<p>C67. What are the worst months for service from the mini-grid?</p> <p>I Multiple responses are possible. Record all months when household has the lowest number of hours of electricity supply.</p> <p>E C66 == 1</p>	<p>MULTI-SELECT: YES/NO C67</p> <p>001 <input type="checkbox"/> / <input type="checkbox"/> 13th April-13th May  002 <input type="checkbox"/> / <input type="checkbox"/> 14th May-14th June  003 <input type="checkbox"/> / <input type="checkbox"/> 15th June-15th July  004 <input type="checkbox"/> / <input type="checkbox"/> 16th July-16th August  005 <input type="checkbox"/> / <input type="checkbox"/> 17th August-16th September  006 <input type="checkbox"/> / <input type="checkbox"/> 17th September-16th October  007 <input type="checkbox"/> / <input type="checkbox"/> 17th October-15th November  008 <input type="checkbox"/> / <input type="checkbox"/> 16th November-15th December  009 <input type="checkbox"/> / <input type="checkbox"/> 16th December-13th January  010 <input type="checkbox"/> / <input type="checkbox"/> 14th January-11th February  011 <input type="checkbox"/> / <input type="checkbox"/> 12th February-13th March  012 <input type="checkbox"/> / <input type="checkbox"/> 14th March-13th April  888 <input type="checkbox"/> / <input type="checkbox"/> Don't Know</p>
<p>C68. Do you receive information about a "load-shedding" schedule (load shedding is the set</p>	<p>SINGLE-SELECT C68</p>

hours of electricity available from the mini grid)?

- 01  Yes
- 02  No

E C44.InList (1, 4)

STATIC TEXT

*Ask respondent first about the worst months and then about a typical month for C.69- C.73 If no seasonal changes, ask only about a typical month. Ask questions by ROW.*

C. SUPPLY AND DEMAND OF ELECTRICITY / %C44%

**A. WORST MONTHS**

E C66 == 1

C69. How many hours of electricity are available each day and night from the mini-grid? (max 24 hours)

NUMERIC: INTEGER

C69 A

-----

I Don't know.....888

V1 self <= 24 || self == 888

M1 Please enter less than or equal to 24 or 888.

C70. How many hours of electricity are available each evening, from 6:00 pm to 10:00 pm from the mini-grid? (max 4 hours)

NUMERIC: INTEGER

C70 A

-----

I Don't know.....888

V1 self <= 4 || self == 888

M1 Please enter less than or equal to 4 or 888.

C71. How many hours of electricity do you use each day from the mini-grid?

NUMERIC: INTEGER

C71 A

-----

I Don't know.....888

V1 self <= C69\_A || self == 888

M1 Please enter less than %C69\_A% or if don't know enter 888.

C72. How many outages/blackouts occur in a week?

NUMERIC: INTEGER

C72 A

-----

I No outages/blackouts.....111, Dont know ...888

C73A.1.What is the total duration of all the outages/blackouts in a week?:Hours

NUMERIC: INTEGER

C73\_A\_1

-----

I Don't know.....888, Hours

E C72\_A != 111

V1 self < 169 || self == 888

M1 Error! Please check. or if don't know enter 888.

C73.A.2.What is the total duration of all the outages/blackouts in a week?

NUMERIC: INTEGER

C73\_A\_2

-----

I Don't know.....888

E C72\_A != 111

V1 self < 60 || self == 888

M1 Error! Please check. or if don't know enter 888.

C. SUPPLY AND DEMAND OF ELECTRICITY / %C44%

**B.TYPICAL MONTH**

C69. How many hours of electricity are available each day and night from the mini-grid? (max 24 hours)

NUMERIC: INTEGER

C69 B

-----

I Don't know.....888



<p>V1 self &lt;= 24    self == 888 M1 Please enter less than or equal to 24 or 888.</p>	
<p>C70. How many hours of electricity are available each evening, from 6:00 pm to 10:00 pm from the mini-grid? (max 4 hours)</p> <p>I Don't know.....888 V1 self &lt;= 4    self == 888 M1 Please enter less than or equal to 4 or 888</p>	<p>NUMERIC: INTEGER <span style="float: right;">C70_B</span></p> <p>-----</p>
<p>C71. How many hours of electricity do you use each day from the mini-grid?</p> <p>I Don't know.....888 V1 self &lt;= C69_B    self == 888 M1 Please enter less than or equal to %C69_B% or 888</p>	<p>NUMERIC: INTEGER <span style="float: right;">C71_B</span></p> <p>-----</p>
<p>C72. How many outages/blackouts occur in a week?</p> <p>I No outages/blackouts.....111, Dont know ...888</p>	<p>NUMERIC: INTEGER <span style="float: right;">C72_B</span></p> <p>-----</p>
<p>C73.B.1.What is the total duration of all the outages/blackouts in a week?: Hours</p> <p>I Don't know.....888 E C72_B != 111 V1 self &lt; 169    self == 888 M1 Error! Please check or enter 888 for don't know.</p>	<p>NUMERIC: INTEGER <span style="float: right;">C73_B_1</span></p> <p>-----</p>
<p>C73.B.2.What is the total duration of all the outages/blackouts in a week?</p> <p>I Don't know.....888 E C72_B != 111 V1 self &lt; 60    self == 888 M1 Error! Please check. or if don't know enter 888.</p>	<p>NUMERIC: INTEGER <span style="float: right;">C73_B_2</span></p> <p>-----</p>
<p>C74.What is your main back-up source of lighting during outages/blackouts of the grid?</p>	<p>SINGLE-SELECT <span style="float: right;">C74</span></p> <p>001 <input type="radio"/> Electric generator 002 <input type="radio"/> Rechargeable battery and storage devices (e.g.: car battery) 003 <input type="radio"/> Solar Lantern 004 <input type="radio"/> Solar -Lighting System (2+ lights with cell phone charging and/or radio) 005 <input type="radio"/> Solar Home System (2+ lights with cell phone charging, and TV/fan/fridge) 006 <input type="radio"/> Pico-hydro 007 <input type="radio"/> Kerosene lamp 008 <input type="radio"/> Fuel-based lighting 009 <input type="radio"/> Dry-cell (non-rechargeable) battery/ Torch/ Flashlight 010 <input type="radio"/> Candle 555 <input type="radio"/> Other, specify 111 <input type="radio"/> No back-up source</p>
<p>C74. Specify Others</p> <p>E C74 == 555</p>	<p>TEXT <span style="float: right;">C74_SO</span></p> <p>-----</p>
<p>C75.What is your main back-up source of electricity for appliances during</p>	<p>SINGLE-SELECT <span style="float: right;">C75</span></p> <p>001 <input type="radio"/> Electric generator</p>

<p>outages/blackouts of the mini-grid?</p>	<p>002 <input type="radio"/> Rechargeable battery and storage devices (e.g.: car battery)</p> <p>003 <input type="radio"/> Solar Lantern</p> <p>004 <input type="radio"/> Solar -Lighting System (2+ lights with cell phone charging and/or radio)</p> <p>005 <input type="radio"/> Solar Home System (2+ lights with cell phone charging, and TV/fan/fridge)</p> <p>006 <input type="radio"/> Pico-hydro</p> <p>555 <input type="radio"/> Other, specify</p> <p>111 <input type="radio"/> No back-up source</p>
<p>C75. Specify Others</p> <p>E C75 == 555</p>	<p>TEXT <span style="float: right;">C75 SO</span></p> <p>-----</p>
<p>C76.How do you request for repairs in electricity service or file a complaint?</p>	<p>SINGLE-SELECT <span style="float: right;">C76</span></p> <p>001 <input type="radio"/> Call mini-grid /pico hydro operator</p> <p>002 <input type="radio"/> Call a local technician</p> <p>003 <input type="radio"/> Send a letter/email</p> <p>004 <input type="radio"/> Social media</p> <p>005 <input type="radio"/> Talk to community representative</p> <p>006 <input type="radio"/> No system to request repairs/file complaint</p> <p>555 <input type="radio"/> Other, specify</p>
<p>C76. Specify Others</p> <p>E C76 == 555</p>	<p>TEXT <span style="float: right;">C76 SO</span></p> <p>-----</p>
<p>C77. When there is a blackout in your community, who do you usually approach for assistance?</p>	<p>SINGLE-SELECT <span style="float: right;">C77</span></p> <p>01 <input type="radio"/> The power company</p> <p>02 <input type="radio"/> Someone not from power company</p> <p>03 <input type="radio"/> No-one: we wait until power returns</p>
<p>C78.The last time you asked for assistance, how many days after you contacted %C77% did they come to fix the problem?</p> <p>I Number of days Don't know.....888</p> <p>E C77.InList(1,2)</p> <p>V1 self &lt; 100    self == 888</p> <p>M1 Too large. Please check or enter 888 don't knwo</p>	<p>NUMERIC: INTEGER <span style="float: right;">C78</span></p> <p>-----</p>
<p>C79. Do you experience voltage fluctuations from the grid?</p>	<p>SINGLE-SELECT <span style="float: right;">C79</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C80.Have you installed an instrument to prevent damage caused by the voltage fluctuations (eg: stabilizer)?</p> <p>E C79 == 1</p>	<p>SINGLE-SELECT <span style="float: right;">C80</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C81. In the last 12 months, did any of your appliances get damaged because the voltage was going up and down from the mini grid?</p> <p>E C79 == 1</p>	<p>SINGLE-SELECT <span style="float: right;">C81</span></p> <p>001 <input type="radio"/> Yes</p> <p>002 <input type="radio"/> No</p> <p>888 <input type="radio"/> Don't know</p>

C82. What are the most serious problems you experience with your mini grid electricity?

I 2 options only, Order matters.

MULTI-SELECT: ORDERED

C82

- 001  Supply shortage/not enough hours of electricity
- 002  Low/high voltage problems or voltage fluctuations
- 003  Unpredictable interruptions
- 004  Unexpectedly high bills
- 005  Too expensive
- 006  Do not trust the supplier
- 007  Cannot power large appliances
- 008  Maintenance/service problems
- 009  Unpredictable bills
- 555  Other, specify
- 111  No problems

C82. Specify Others

TEXT

C82\_SO

E C82.Contains (555)

C83.In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the mini grid electricity (for example, bodily injury because of electric shocks, fire/sparks due to short circuit/voltage surge)?

SINGLE-SELECT

C83

- 01  Yes
- 02  No

C83.A. What was the reasons for this injury?

SINGLE-SELECT

C83\_A

E C83 == 1

- 001  Carelessness or error
- 002  Lack of knowledge about the use of the appliance
- 003  Faulty wiring or wiring with exposed wires
- 555  Other, specify

C83.A. Specify Others

TEXT

C83\_A\_SO

E C83\_A == 555

C84. In the last 12 months, did the household use a generator to supply electricity?

SINGLE-SELECT

C84

- 01  Yes
- 02  No

E C\_AVAILABLE == 1

C. SUPPLY AND DEMAND OF ELECTRICITY  
ELECTRIC GENERATOR SET

E C84 == 1

C85.How many generators does your household use to supply electricity?

NUMERIC: INTEGER

C85

I Don't know.....888, If multiple generators, ask following questions about main generator.

-----

V1 self < 6 || self==888

M1 Too many. Please check again.

C86.Do you share this generator with other households?

SINGLE-SELECT

C86

- 01  Yes
- 02  No

C87.How many households are sharing electricity from this generator?

NUMERIC: INTEGER

C87

-----

<p>I Don't know.....888</p> <p>E C86 == 1</p>	
<p>C88.Enumerator Observation: What is the capacity of the generator?</p> <p>I Volt Amps (kVA) Don't know.....888</p>	<p>TEXT C88</p> <p>-----</p>
<p>C89. In the last 12 months, in which months did you use this generator or did you use it all year?</p> <p>V1 (self.Contains(111) &amp;&amp; !self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12))    (!self.Contains(111) &amp;&amp; self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12))</p> <p>M1 Error! . Please used all year or other months only.</p>	<p>MULTI-SELECT C89</p> <p>111 <input type="checkbox"/> Used all year</p> <p>001 <input type="checkbox"/> 13th April-13th May</p> <p>002 <input type="checkbox"/> 14th May-14th June</p> <p>003 <input type="checkbox"/> 15th June-15th July</p> <p>004 <input type="checkbox"/> 16th July-16th August</p> <p>005 <input type="checkbox"/> 17th August-16th September</p> <p>006 <input type="checkbox"/> 17th September-16th October</p> <p>007 <input type="checkbox"/> 17th October-15th November</p> <p>008 <input type="checkbox"/> 16th November-15th December</p> <p>009 <input type="checkbox"/> 16th December-13th January</p> <p>010 <input type="checkbox"/> 14th January-11th February</p> <p>011 <input type="checkbox"/> 12th February-13th March</p> <p>012 <input type="checkbox"/> 14th March-13th April</p> <p>888 <input type="checkbox"/> Don't Know</p>
<p>C90.How many days per month did you typically use this generator?</p> <p>I Number of days Don't know.....888</p> <p>V1 self &lt; 33    self==888</p> <p>M1 Please enter less than or equal to 32.</p>	<p>NUMERIC: INTEGER C90</p> <p>-----</p>
<p>C91.In the last 12 months, what did your household use this generator for?</p>	<p>MULTI-SELECT C91</p> <p>001 <input type="checkbox"/> Lighting</p> <p>002 <input type="checkbox"/> Appliances</p> <p>003 <input type="checkbox"/> Home-based income activity</p> <p>555 <input type="checkbox"/> Other, specify</p> <p>888 <input type="checkbox"/> Don't know</p>
<p>C91. Specify Others</p> <p>E C91.Contains(555)</p>	<p>TEXT C91_SO</p> <p>-----</p>
<p>C92. How many years have you used this generator?</p> <p>I Don't know.....888</p>	<p>NUMERIC: INTEGER C92</p> <p>-----</p>
<p>C93.Does your household own the generator?</p>	<p>SINGLE-SELECT C93</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C94.Who owns the generator?</p> <p>E C93 == 2</p>	<p>SINGLE-SELECT C94</p> <p>001 <input type="radio"/> Other Household</p> <p>002 <input type="radio"/> Community organization</p> <p>003 <input type="radio"/> Private person/entity</p> <p>555 <input type="radio"/> Other, specify</p> <p>888 <input type="radio"/> Don't know</p>
<p>C94. Specify Others</p>	<p>TEXT C94_SO</p>

E C94 == 555	.....
C95.Do you rent the generator or use it for free? E C93 == 2	SINGLE-SELECT C95 01 <input type="radio"/> Rent 02 <input type="radio"/> Use for free
C96.How do you pay for electricity services from the generator? E C95 == 1	SINGLE-SELECT C96 001 <input type="radio"/> Fixed payment (per month or week) 002 <input type="radio"/> Charge by number of lights/appliances 003 <input type="radio"/> Charge per kWh 004 <input type="radio"/> Pay for fuel only 555 <input type="radio"/> Other, specify
C96. Specify Others E C96 == 555	TEXT C96_SO .....
C97.In the months that you use it, how much did you pay to use the generator each month? I Don't know.....888 E C96.InList(1,2,3,555)	NUMERIC: INTEGER C97 -----
C98.How much did you pay to purchase the generator? I Don't know.....888 E (C97 < 0    C93 == 1) && (C95 == 2    C93 == 1)	NUMERIC: INTEGER C98 -----
C99. In the last 12 months, how much did you pay for repairs/parts/maintenance of the generator? I Don't know.....888 E (C97 < 0    C93 == 1) && (C95 == 2    C93 == 1)	NUMERIC: INTEGER C99 -----
C100.What fuel is used to power the generator? E C100 == 555	SINGLE-SELECT C100 001 <input type="radio"/> Diesel 002 <input type="radio"/> Petrol 003 <input type="radio"/> Kerosene 555 <input type="radio"/> Other, specify 888 <input type="radio"/> Don't know
C100. Specify Others E C100 == 555	TEXT C100_SO .....
C101.In the last 30 days, what was the total quantity of fuel used to power the generator? I Don't know.....888	NUMERIC: INTEGER C101 -----
C102.Do you pay for the fuel used to power the generator?	SINGLE-SELECT C102 01 <input type="radio"/> Yes 02 <input type="radio"/> No
C103. In the last 30 days, how much did your household spend on fuel for this generator? I Don't know...888, NPR E C102 == 1	NUMERIC: INTEGER C103 -----

<p>C104. Is the generator the household's main source of electricity?</p> <p>E C102 == 1</p>	<p>SINGLE-SELECT <span style="float: right;">C104</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C105. Are there certain months/seasons of the year when less fuel is available to power the generator?</p> <p>E C104 == 1    C102 == 2</p>	<p>SINGLE-SELECT <span style="float: right;">C105</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C106. What are the worst months of fuel availability for the generator?</p> <p>E C105 == 1</p>	<p>MULTI-SELECT <span style="float: right;">C106</span></p> <p>001 <input type="checkbox"/> 13th April-13th May</p> <p>002 <input type="checkbox"/> 14th May-14th June</p> <p>003 <input type="checkbox"/> 15th June-15th July</p> <p>004 <input type="checkbox"/> 16th July-16th August</p> <p>005 <input type="checkbox"/> 17th August-16th September</p> <p>006 <input type="checkbox"/> 17th September-16th October</p> <p>007 <input type="checkbox"/> 17th October-15th November</p> <p>008 <input type="checkbox"/> 16th November-15th December</p> <p>009 <input type="checkbox"/> 16th December-13th January</p> <p>010 <input type="checkbox"/> 14th January-11th February</p> <p>011 <input type="checkbox"/> 12th February-13th March</p> <p>012 <input type="checkbox"/> 14th March-13th April</p> <p>888 <input type="checkbox"/> Don't Know</p>

STATIC TEXT

*Ask respondent first about the worst months and then about a typical month for C107-C109. If no seasonal changes C105 or not the main source C104 ask only about a typical month. Ask questions by ROW.*

C. SUPPLY AND DEMAND OF ELECTRICITY / ELECTRIC GENERATOR SET  
A. WORST MONTHS

E C105 == 1

<p>C107. How many hours could you use this generator each day and night if you wanted to? (max 24 hours)</p> <p>I Don't know.....888</p> <p>V1 self &lt; 25    self == 888</p> <p>M1 Please enter less than or equal to 24 or 888</p>	<p>NUMERIC: INTEGER <span style="float: right;">C107_A</span></p> <p>-----</p>
<p>C108. How many hours could you use this generator each evening, from 6:00 pm to 10:00 pm if you wanted to? (max 4 hours)</p> <p>I Max 4 hrs., Don't know.....888</p> <p>V1 self &lt; 5    self == 888</p> <p>M1 Please enter less than or equal to 4 or 888.</p>	<p>NUMERIC: INTEGER <span style="float: right;">C108_A</span></p> <p>-----</p>
<p>C109. How many hours do you actually use this generator each day?</p> <p>I Don't know.....888</p> <p>V1 self &lt; C107_A    self == 888</p> <p>M1 Error! Please enter less than %C107_A% or 888</p>	<p>NUMERIC: INTEGER <span style="float: right;">C109_A</span></p> <p>-----</p>

C. SUPPLY AND DEMAND OF ELECTRICITY / ELECTRIC GENERATOR SET  
B. TYPICAL MONTH

<p>C107.How many hours could you use this generator each day and night if you wanted to? (max 24 hours)</p> <p>I Don't know.....888  V1 self &lt; 25    self == 888  M1 Please enter less than or equal to 24 or 888.</p>	<p>NUMERIC: INTEGER <span style="float: right;">C107_B</span></p> <p>-----</p>
<p>C108.How many hours could you use this generator each evening, from 6:00 pm to 10:00 pm if you wanted to?</p> <p>I Max 4 hrs., Don't know.....888  V1 self &lt; 5    self == 888  M1 Please enter less than or equal to 4 or 888</p>	<p>NUMERIC: INTEGER <span style="float: right;">C108_B</span></p> <p>-----</p>
<p>C109. How many hours do you actually use this generator each day?</p> <p>I Don't know.....888  V1 self &lt;= C107_B    self == 888  M1 Please enter less than or equal to %C107_B% or 888.</p>	<p>NUMERIC: INTEGER <span style="float: right;">C109_B</span></p> <p>-----</p>
<p>C110. Do you experience voltage fluctuations from the generator?</p> <p>E C84 == 1</p>	<p>SINGLE-SELECT <span style="float: right;">C110</span></p> <p>01 <input type="radio"/> Yes  02 <input type="radio"/> No</p>
<p>C111.Have you installed an instrument to prevent damage caused by the voltage fluctuations (eg: stabilizer)?</p> <p>E C110 == 1</p>	<p>SINGLE-SELECT <span style="float: right;">C111</span></p> <p>01 <input type="radio"/> Yes  02 <input type="radio"/> No</p>
<p>C112. In the last 12 months, did any of your appliances get damaged because the voltage was going up and down from the generator?</p> <p>E C110 == 1</p>	<p>SINGLE-SELECT <span style="float: right;">C112</span></p> <p>001 <input type="radio"/> Yes  002 <input type="radio"/> No  888 <input type="radio"/> Don't know</p>
<p>C113. What are the most serious problems you experience with the generator?</p> <p>E C84 == 1</p>	<p>MULTI-SELECT: ORDERED <span style="float: right;">C113</span></p> <p>001 <input type="checkbox"/> Limited power supply  002 <input type="checkbox"/> Cannot power large appliances  003 <input type="checkbox"/> Too expensive to use (including high cost of fuel/rent)  004 <input type="checkbox"/> Availability of the fuel  005 <input type="checkbox"/> Hard to maintain/service  006 <input type="checkbox"/> Loud/Noisy  007 <input type="checkbox"/> Unpredictable interruptions  555 <input type="checkbox"/> Other, specify  111 <input type="checkbox"/> No problems</p>
<p>C113. Specify Others</p> <p>E C113.Contains (555)</p>	<p>TEXT <span style="float: right;">C113_SO</span></p> <p>-----</p>
<p>C114.In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the generator? (for example, serious bodily injury because of electric shocks, fire/sparks due to short circuit/voltage surge)?</p> <p>E C84 == 1</p>	<p>SINGLE-SELECT <span style="float: right;">C114</span></p> <p>01 <input type="radio"/> Yes  02 <input type="radio"/> No</p>
<p>C114.A. What was the reasons for this injury?</p>	<p>SINGLE-SELECT <span style="float: right;">C114_A</span></p>

E C114 == 1	001 <input type="radio"/> Carelessness or error 002 <input type="radio"/> Lack of knowledge about the use of the appliance 003 <input type="radio"/> Faulty wiring or wiring with exposed wires 555 <input type="radio"/> Other, specify
C114.A. Specify Others	TEXT C114 A SO .....
E C114_A == 555	C115. In the last 12 months, did the household use any rechargeable batteries, such as car batteries, for electricity AS THE MAIN SOURCE OF ELECTRICITY? SINGLE-SELECT C115 01 <input type="radio"/> Yes 02 <input type="radio"/> No
E C_AVAILABLE == 1 && (C35 != 3    C75 != 2)	

C. SUPPLY AND DEMAND OF ELECTRICITY  
EXTERNALLY RECHARGED BATTERY (CAR BATTERY, ETC) – SKIP IF THIS IS FOR BACKUP SOLUTIONS

E C115 == 1	
C116. In the last 12 months, in which months did you use rechargeable batteries or did you use it all year? Multiple responses possible VI (self.Yes.Contains(111) && !self.Yes.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12))    (!self.Yes.Contains(111) && self.Yes.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12)) M1 Error! Either select use all or select months only.	MULTI-SELECT: YES/NO C116 111 <input type="checkbox"/> / <input type="checkbox"/> Used all year 001 <input type="checkbox"/> / <input type="checkbox"/> 13th April-13th May 002 <input type="checkbox"/> / <input type="checkbox"/> 14th May-14th June 003 <input type="checkbox"/> / <input type="checkbox"/> 15th June-15th July 004 <input type="checkbox"/> / <input type="checkbox"/> 16th July-16th August 005 <input type="checkbox"/> / <input type="checkbox"/> 17th August-16th September 006 <input type="checkbox"/> / <input type="checkbox"/> 17th September-16th October 007 <input type="checkbox"/> / <input type="checkbox"/> 17th October-15th November 008 <input type="checkbox"/> / <input type="checkbox"/> 16th November-15th December 009 <input type="checkbox"/> / <input type="checkbox"/> 16th December-13th January 010 <input type="checkbox"/> / <input type="checkbox"/> 14th January-11th February 011 <input type="checkbox"/> / <input type="checkbox"/> 12th February-13th March 012 <input type="checkbox"/> / <input type="checkbox"/> 14th March-13th April 888 <input type="checkbox"/> / <input type="checkbox"/> Don't Know
C117. In the last 12 months, what did your household use rechargeable batteries for?	MULTI-SELECT C117 001 <input type="checkbox"/> Lighting 002 <input type="checkbox"/> Appliances 003 <input type="checkbox"/> Home-based income activity 555 <input type="checkbox"/> Other, specify
C117. Specify Others	TEXT C117 SO .....
E C117.Contains(555)	C118. Does your household have an inverter that allows you to use AC appliances? SINGLE-SELECT C118 01 <input type="radio"/> Yes 02 <input type="radio"/> No
C119. What is the capacity of the inverter? I Watts (W) E C118 == 1	NUMERIC: INTEGER C119 -----
C120. What is the total number of rechargeable batteries that you use in a typical month?	NUMERIC: INTEGER C120 -----



I Total number of rechargeable batteries. Don't know.....888  
 .....888  
 E C118.InList (1,2)  
 V1 self < 20  
 M1 Too many.

C. SUPPLY AND DEMAND OF ELECTRICITY / EXTERNALLY RECHARGED BATTERY (CAR BATTERY, ETC) – SKIP IF THIS IS FOR BACKUP SOLUTIONS

Roster: BATTERY ROSTER

generated by numeric question C120

R\_C120

<p>C121.What is the capacity of the rechargeable battery %rostertitle%?</p> <p>I Don't know.....888        E C118 == 2</p>	<p>NUMERIC: INTEGER C121</p> <p>-----</p>
<p>C122.What is the voltage of the rechargeable battery %rostertitle%?</p> <p>I Don't know.....888        E C118 == 2</p>	<p>NUMERIC: INTEGER C122</p> <p>-----</p>
<p>C123.How much did you pay for the rechargeable battery(ies) %rostertitle%?</p> <p>I Don't know.....888        E C118 == 2</p>	<p>NUMERIC: INTEGER C123</p> <p>-----</p>
<p>C124. How many recharges for all battery %rostertitle% does your household have in a typical month?</p> <p>I Don't know.....888</p>	<p>NUMERIC: INTEGER C124</p> <p>-----</p>
<p>C125.Do you pay someone/some entity outside the household to recharge the battery on a regular basis?</p>	<p>SINGLE-SELECT C125</p> <p>01 <input type="radio"/> Yes        02 <input type="radio"/> No</p>
<p>C126. How much does your household spend in a typical month to recharge the batteries (in total)?</p> <p>I Local currency Don't Know.....888        E C125 == 1</p>	<p>NUMERIC: INTEGER C126</p> <p>-----</p>
<p>C127. What is the electricity source used to recharge the battery?</p>	<p>SINGLE-SELECT C127</p> <p>001 <input type="radio"/> National grid        002 <input type="radio"/> Local mini-grid        003 <input type="radio"/> Electric generator        004 <input type="radio"/> Solar        555 <input type="radio"/> Other, specify</p>
<p>C127. Specify Others</p> <p>E C127 == 555</p>	<p>TEXT C127 SO</p> <p>-----</p>
<p>C128.Is battery recharging limited by availability of electricity from %C127%?</p>	<p>SINGLE-SELECT C128</p> <p>001 <input type="radio"/> Yes        002 <input type="radio"/> No        888 <input type="radio"/> Don't know</p>
<p>C129. How many hours can you use rechargeable batteries for electricity supply each day when fully charged if you wanted to?</p>	<p>NUMERIC: INTEGER C129</p> <p>-----</p>

<p>(max 24 hours)</p> <p>I Hours Don't Know.....888</p> <p>V1 self &lt; 25    self == 888</p> <p>M1 Please enter less than or equal to 24 or 888</p>	
<p>C130.How many hours can you use rechargeable batteries for electricity supply each evening, from 6:00 pm to 10:00 pm if you wanted to?</p> <p>I Don't..888, Max 4 Hrs</p> <p>V1 self &lt; 5    self == 888</p> <p>M1 Please enter less than or equal to 4 or 888</p>	<p>NUMERIC: INTEGER C130</p> <p>-----</p>
<p>C131. How many hours do you actually use rechargeable batteries for electricity supply each day?</p> <p>I Don't Know.....888</p> <p>V1 self &lt;= C129   self == 888</p> <p>M1 Error ! Please enter less than or equal to %C129% or 888</p>	<p>NUMERIC: INTEGER C131</p> <p>-----</p>
<p>C132.How many hours do you actually use rechargeable batteries for electricity supply each evening, from 6:00 pm to 10:00 pm?</p> <p>I Don't Know.....888</p> <p>V1 self &lt;= C130    self == 888</p> <p>M1 Please enter less than or equal than %C130% or 888</p>	<p>NUMERIC: INTEGER C132</p> <p>-----</p>
<p>C133.What are the most serious problems you experience with the rechargeable batteries?</p> <p>I Record up to 2 responses.</p>	<p>MULTI-SELECT: ORDERED C133</p> <p>001 <input type="checkbox"/> Supply shortage/not enough hours of electricity</p> <p>002 <input type="checkbox"/> Too expensive</p> <p>003 <input type="checkbox"/> Cannot power large appliances</p> <p>004 <input type="checkbox"/> Recharging is not convenient</p> <p>005 <input type="checkbox"/> Maintenance &amp; repair is difficult</p> <p>006 <input type="checkbox"/> Cannot recharge battery to full capacity</p> <p>555 <input type="checkbox"/> Other, specify</p> <p>111 <input type="checkbox"/> No problems</p>
<p>C133. Specify Others</p> <p>E C133.Contains (555)</p>	<p>TEXT C133_SO</p> <p>-----</p>
<p>134.In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the rechargeable batteries (for example, serious bodily injury because of electric shocks, fire/sparks due to short circuit/voltage surge)?</p> <p>E C115 == 1</p>	<p>SINGLE-SELECT C134</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C134.A. What was the reasons for this injury?</p> <p>E C134 == 1</p>	<p>SINGLE-SELECT C134 A</p> <p>001 <input type="radio"/> Carelessness or error</p> <p>002 <input type="radio"/> Lack of knowledge about the use of the appliance</p> <p>003 <input type="radio"/> Faulty wiring or wiring with exposed wires</p> <p>555 <input type="radio"/> Other, specify</p>
<p>C134.A. Specify Others</p>	<p>TEXT C134_A_SO</p>

E C134\_A == 555

C135. Interviewer/CAPI check: In the last 12 months, did the household use any of the following solar based devices? Multiple responses possible.

I Ask about all devices in order of importance (Example: Main Solar System is Device 1)

E C\_AVAILABLE == 1

MULTI-SELECT

C135

- 01  Solar lanterns
- 02  Solar lighting system
- 03  Solar home system
- 04  None

STATIC TEXT

E C\_AVAILABLE == 1 && C135.Contains(1)

### *Solar Lanterns*



STATIC TEXT

E C\_AVAILABLE == 1 && C135.Contains(2)

### *Solar Lighting System*



STATIC TEXT

E C\_AVAILABLE == 1 && C135.Contains(3)

### *Solar Home System*



C136. How many solar lanterns do you have?

NUMERIC: INTEGER

C136

I Number of solar lanterns E C135.Contains (1)	-----
C137. How many solar lighting systems (2+lights with cell phone charger and/or radio) do you have?  I Number of solar lighting system E C135.Contains (2)	NUMERIC: INTEGER C137 -----
C138. How many solar home systems (2+ lights with cell phone charger and TV/fan/fridge) do you have?  I Number of solar home system E C135.Contains (3)	NUMERIC: INTEGER C138 -----

C. SUPPLY AND DEMAND OF ELECTRICITY  
Roster: SOLAR BASED DEVICE  
generated by multi-select question C135

R\_SD

E C\_AVAILABLE == 1 && C135.ContainsAny(1,2,3)

C141.What is the manufacturer and model of the %rosteritle%?  I Don't Know ..888	TEXT C141 -----
C142.Does this %rosteritle% have a mobile charger?	SINGLE-SELECT C142 01 <input type="radio"/> Yes 02 <input type="radio"/> No
C142.B Does this %rosteritle% have a radio?	SINGLE-SELECT C142_B 01 <input type="radio"/> Yes 02 <input type="radio"/> No
C143.Is this %rosteritle% your MAIN solar device?	SINGLE-SELECT C143 01 <input type="radio"/> Yes 02 <input type="radio"/> No
C144. What is the type of solar device?  V1 (self == 1 && C135.Contains(1))    (self == 2 && C135.Contains(2))    (self == 3 && C135.Contains(3)) M1 Error! Please select the valid response.	SINGLE-SELECT C144 01 <input type="radio"/> Solar Lantern 02 <input type="radio"/> Solar lighting system 03 <input type="radio"/> Solar Home System
C145.How many light bulbs are there (that can be separated from each other)?  I NUMBER OF LIGHT BULBS E C144 != 1	NUMERIC: INTEGER C145 -----
C146.What is the power rating of the solar panel?  I If unknown, enter "888" , Read the name plate of the solar panel, Watt-Peak (Wp) E C144 != 1	NUMERIC: INTEGER C146 -----
C148.What is the capacity of the battery?  I Don't Know ..888 E C144 != 1 && C146 != 888	NUMERIC: INTEGER C148 -----
C149.Do you have an inverter?	SINGLE-SELECT C149

	01 <input type="radio"/> Yes 02 <input type="radio"/> No
C150.How many years have you had this <a href="#">%rostertitle%</a> ?  I Record in years, if less than 1, record 1 V1 self < 100 M1 Too many. Please check.	NUMERIC: DECIMAL C150 -----
C151.Who decided to purchase/ acquire this <a href="#">%rostertitle%</a> ?  I MEMBER ID	SINGLE-SELECT: LINKED C151
C152.Did you buy this <a href="#">%rostertitle%</a> paying upfront or under installment, do you rent it/pay a fee to use it, or did you receive it for free?	SINGLE-SELECT C152 01 <input type="radio"/> Bought, fully paid 02 <input type="radio"/> Bought, under installment 03 <input type="radio"/> Rent/pay fee to use 04 <input type="radio"/> Received for free
C153.Who gave you this <a href="#">%rostertitle%</a> ?  E C152 == 4	SINGLE-SELECT C153 001 <input type="radio"/> Local private organizations (NGO) 002 <input type="radio"/> Chief of village 003 <input type="radio"/> Local government 004 <input type="radio"/> Relative/Friend 555 <input type="radio"/> Other, specify
C153. Specify Others  E C153 == 555	TEXT C153_SO -----
C154.How much did you pay for this <a href="#">%rostertitle%</a> upfront? : Full amount  E C152 == 1	NUMERIC: INTEGER C154_FULL -----
C154.How much did you pay for this <a href="#">%rostertitle%</a> upfront? : PARTIAL  E C152 == 2	NUMERIC: INTEGER C154_PARTIAL -----
C155.What payment system do you use?  E C152 == 3	SINGLE-SELECT C155 01 <input type="radio"/> Mobile Pay-as-you-go 02 <input type="radio"/> Other Pay-as-you go (scratch card, etc.) 03 <input type="radio"/> Fixed fee
C156.What is the monthly payment for <a href="#">%rostertitle%</a> (INSTALLMENT/ FEE TO RENT/USE)?  E C154_PARTIAL >= 0    C152 == 3	NUMERIC: INTEGER C156 -----
C157.Did/do you borrow money to make your payment for <a href="#">%rostertitle%</a> ?  E C152 <= 3    C154_FULL >= 0	SINGLE-SELECT C157 01 <input type="radio"/> Yes 02 <input type="radio"/> No
C158.Did you receive information and training on this <a href="#">%rostertitle%</a> ?	SINGLE-SELECT C158 01 <input type="radio"/> Yes 02 <input type="radio"/> No

<p>C159.How many hours do you use %rostertitle% for lighting and other applications each day?</p> <p>I Don't know.....888</p> <p>V1 self &lt;= 24    self == 888</p> <p>M1 Please enter less than 25 or 888.</p>	<p>NUMERIC: INTEGER <span style="float: right;">C159</span></p> <p>-----</p>
<p>C160.What is the most serious problem you experience with %rostertitle%?</p>	<p>SINGLE-SELECT <span style="float: right;">C160</span></p> <p>001 <input type="radio"/> Duration of service too short</p> <p>002 <input type="radio"/> Too expensive</p> <p>003 <input type="radio"/> Cannot power large appliances</p> <p>004 <input type="radio"/> Breaks too often</p> <p>005 <input type="radio"/> Maintenance and availability of spare parts</p> <p>006 <input type="radio"/> Quality of light</p> <p>007 <input type="radio"/> Battery problems</p> <p>555 <input type="radio"/> Other, specify</p> <p>111 <input type="radio"/> No problems</p>
<p>C160. Specify Others</p> <p>E C160 == 555</p>	<p>TEXT <span style="float: right;">C160_SO</span></p> <p>-----</p>

C. SUPPLY AND DEMAND OF ELECTRICITY  
**MAIN SOLAR-BASED DEVICE**

E C135.ContainsAny(1,2,3)

<p>Enter the name of main solar-based device</p> <p>V1 (self == 1 &amp;&amp; C135.Contains(1))    (self == 2 &amp;&amp; C135.Contains(2))    (self == 3 &amp;&amp; C135.Contains(3))</p> <p>M1 Error! Please select the valid response.</p>	<p>SINGLE-SELECT <span style="float: right;">IMP SOLAR_DEVICE</span></p> <p>01 <input type="radio"/> Solar lanterns</p> <p>02 <input type="radio"/> Solar lighting system</p> <p>03 <input type="radio"/> Solar home system</p>
<p>C161.Are there certain months/seasons every year when the service is not as strong from %IMP_SOLAR_DEVICE%?</p>	<p>SINGLE-SELECT <span style="float: right;">C161</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C162. What are the worst months for service from %IMP_SOLAR_DEVICE%?</p> <p>E C161 == 1</p>	<p>MULTI-SELECT <span style="float: right;">C162</span></p> <p>001 <input type="checkbox"/> 13th April-13th May</p> <p>002 <input type="checkbox"/> 14th May-14th June</p> <p>003 <input type="checkbox"/> 15th June-15th July</p> <p>004 <input type="checkbox"/> 16th July-16th August</p> <p>005 <input type="checkbox"/> 17th August-16th September</p> <p>006 <input type="checkbox"/> 17th September-16th October</p> <p>007 <input type="checkbox"/> 17th October-15th November</p> <p>008 <input type="checkbox"/> 16th November-15th December</p> <p>009 <input type="checkbox"/> 16th December-13th January</p> <p>010 <input type="checkbox"/> 14th January-11th February</p> <p>011 <input type="checkbox"/> 12th February-13th March</p> <p>012 <input type="checkbox"/> 14th March-13th April</p> <p>888 <input type="checkbox"/> Don't Know</p>

STATIC TEXT

*Ask respondent first about the worst months and then about a typical month for C163 - C165 If no seasonal changes, ask only about a typical month. Ask questions by ROW*

A. WORST MONTHS

E C161 == 1

<p>C163.How many hours do you receive service from this %IMP_SOLAR_DEVICE% each day and night?</p> <p>I Don't know.....888</p> <p>V1 self &lt;= 24    self == 888</p> <p>M1 Please enter less than 25 or 888.</p>	<p>NUMERIC: INTEGER <span style="float:right">C163_A</span></p> <p>-----</p>
<p>C164. How many hours is service available from this %IMP_SOLAR_DEVICE% each evening, from 6:00 pm to 10:00 pm?</p> <p>I Don't know.....888</p> <p>V1 self &lt;= 4    self == 888</p> <p>M1 Please enter less than 5 or 888.</p>	<p>NUMERIC: INTEGER <span style="float:right">C164_A</span></p> <p>-----</p>
<p>C165. How many hours do you actually use the %IMP_SOLAR_DEVICE% each day for lighting and other applications?</p> <p>I Don't know.....888</p> <p>V1 self &lt;= C163_A    self == 888</p> <p>M1 Please enter less than or equal to %C163_A% or 888</p>	<p>NUMERIC: INTEGER <span style="float:right">C165_A</span></p> <p>-----</p>

B. TYPICAL MONTH

<p>C163.How many hours do you receive service from this %IMP_SOLAR_DEVICE% each day and night?</p> <p>I Don't know.....888</p> <p>V1 self &lt;= 24    self == 888</p> <p>M1 Please enter less than 25 or 888</p>	<p>NUMERIC: INTEGER <span style="float:right">C163_B</span></p> <p>-----</p>
<p>C164. How many hours is service available from this %IMP_SOLAR_DEVICE% each evening, from 6:00 pm to 10:00 pm?</p> <p>I Don't know.....888</p> <p>V1 self &lt;= 4    self == 888</p> <p>M1 Please enter less than 5 or 888</p>	<p>NUMERIC: INTEGER <span style="float:right">C164_B</span></p> <p>-----</p>
<p>C165. How many hours do you actually use the %IMP_SOLAR_DEVICE% each day for lighting and other applications?</p> <p>I Don't know.....888</p> <p>V1 self &lt;= C163_B    self == 888</p> <p>M1 Please enter less than %C163_B% or 888</p>	<p>NUMERIC: INTEGER <span style="float:right">C165_B</span></p> <p>-----</p>
<p>166.In the last 12 months, did any household members die or have permanent limb (bodily injury) damage because of the %IMP_SOLAR_DEVICE% (for example, serious bodily injury because of electric shocks, fire/sparks due to short circuit/voltage surge)?</p> <p>E C_AVAILABLE == 1 &amp;&amp; C135.ContainsAny(1,2,3)</p>	<p>SINGLE-SELECT <span style="float:right">C166</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C166.A. What was the reasons for this injury?</p> <p>E C166 == 1</p>	<p>SINGLE-SELECT <span style="float:right">C166_A</span></p> <p>0001 <input type="radio"/> Carelessness or error</p>

- 0002  Lack of knowledge about the use of the appliance
- 0003  Faulty wiring or wiring with exposed wires
- 5555  Other, specify

C167.Is there any device you do not have that you would like to have?

E C\_AVAILABLE == 1 && C135.ContainsAny(1,2,3)

- SINGLE-SELECT C167
- 001  Yes
  - 002  No
  - 888  Don't know

C168.What devices would you most like to have?

I Multiple response (Up to three devices)  
E C167.InList(1) && C135.ContainsAny(1,2,3)

- MULTI-SELECT C168
- 001  Television
  - 002  Fan
  - 003  Refrigerator
  - 004  Radio
  - 005  Tablet/laptop/computer
  - 006  Mobile phone charger
  - 555  Other, specify
  - 888  Don't know/refuse to answer

C168. Specify Others

E C168.Contains(555)

TEXT C168\_SO

.....

C169.Overall, how satisfied with the service provided by the main solar device?

E C\_AVAILABLE == 1 && C135.ContainsAny(1,2,3)

- SINGLE-SELECT C169
- 01  Very satisfied
  - 02  Somewhat satisfied
  - 03  Neutral
  - 04  Unsatisfied
  - 05  Very unsatisfied

C170.In what year did you get your first solar device?

I Don't know.....888  
E C\_AVAILABLE == 1 && C135.ContainsAny(1,2,3)  
V1 self.InRange(1990,2074) || self == 888  
M1 Error! Please check.

NUMERIC: INTEGER C170

-----

C171.Has solar been your main source of lighting/electricity since %C170%?

E C\_AVAILABLE == 1 && C135.ContainsAny(1,2,3)

- SINGLE-SELECT C171
- 01  Yes
  - 02  No

C172.What was your main source of lighting/electricity when it was not a solar device?

E (C171 == 2 || C171 == 888) && C135.ContainsAny(1,2,3)

- SINGLE-SELECT C172
- 001  National grid connection
  - 002  Local mini grid connection
  - 003  Electric generator
  - 004  Rechargeable battery and storage devices (e.g.: car battery)
  - 005  Pico-hydro
  - 006  Kerosene lamp
  - 007  Fuel-based lighting
  - 008  Dry-cell (non-rechargeable) battery/ Torch/Flashlight
  - 009  Candle
  - 555  Other, specify

C172. Specify Others

TEXT C172\_SO



E C172 == 555	
C173. Compared to the first time you used solar lighting, do you currently...	SINGLE-SELECT C173 01 <input type="radio"/> Use more solar lighting 02 <input type="radio"/> Use about the same solar lighting 03 <input type="radio"/> Use less solar lighting
I Read aloud options E C_AVAILABLE == 1 && C135.ContainsAny(1,2,3)	
C174. What appliances do you use today that you did not use with your first solar lighting device?	MULTI-SELECT C174 001 <input type="checkbox"/> Mobile phone charger 002 <input type="checkbox"/> Radio 003 <input type="checkbox"/> TV 004 <input type="checkbox"/> Fan 005 <input type="checkbox"/> Refrigerator 006 <input type="checkbox"/> No change 555 <input type="checkbox"/> Other, specify
E C173.InList(1,2,888) && C135.ContainsAny(1,2,3)	
C174. Specify Others	TEXT C174_S0
E C174.Contains(555)	

C. SUPPLY AND DEMAND OF ELECTRICITY  
MAIN SOURCE OF ELECTRICITY

E C\_AVAILABLE == 1

C175. Of all the sources that you mentioned above, which is the source that you use the most in your household?	SINGLE-SELECT C175 001 <input type="radio"/> National Grid Connection 002 <input type="radio"/> Local Mini Grid connection 003 <input type="radio"/> Electric generator 004 <input type="radio"/> Solar Lantern 005 <input type="radio"/> Solar Lighting System (2+ lights with cell phone charging and/or radio) 006 <input type="radio"/> Solar Home System (2+ lights with cell phone charging, and TV/fan/fridge) 007 <input type="radio"/> Rechargeable Battery 008 <input type="radio"/> Pico-hydro 009 <input type="radio"/> Dry-cell battery 111 <input type="radio"/> No electricity 555 <input type="radio"/> Other, specify
V1 (self == 1 && C2 == 1)    (self == 2 && C44 == 2)    (self == 3 && C84 == 1)    (self.InList(4,5,6) && C135.ContainsAny(1,2,3))    (self == 7 && C115 == 1)    self.InList(8,9,111,555) M1 Error! Please select valid options	
C175. Specify Others	TEXT C175_S0
E C175 == 555	

C. SUPPLY AND DEMAND OF ELECTRICITY / MAIN SOURCE OF ELECTRICITY  
CHARGING MOBILE PHONE

C176. How many mobile phones do the household members own combined?	NUMERIC: INTEGER C176 -----
C177. Are members of your household able to charge all their mobile phones as often as they need inside your dwelling?	SINGLE-SELECT C177 001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't know
E C176 > 0	

<p>C178. Can you charge at least one mobile phone to full charge everyday inside your dwelling?</p> <p>E C177.InList (2,888)</p>	<p>SINGLE-SELECT C178</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C179.Can you charge at least one mobile phone to full charge in 3 days inside your dwelling?</p> <p>E C178 == 2</p>	<p>SINGLE-SELECT C179</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C180.How many mobile phones of your household members do you charge outside your dwelling?</p> <p>E C178 == 2</p> <p>V1 self &lt;= C176</p> <p>M1 Please enter less than or equal to %C176%.</p>	<p>NUMERIC: INTEGER C180</p> <p>-----</p>
<p>C181.Do members of your household have to go more than 500 meters (walk more than 5 minutes) to charge your mobile phones outside your dwelling?</p> <p>E C180 &gt; 0</p>	<p>SINGLE-SELECT C181</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>C182.How much does your household spend each month (in total) on charging the mobile phone(s) outside your dwelling?</p> <p>E C180 &gt; 0</p>	<p>NUMERIC: INTEGER C182</p> <p>-----</p>

## D. WILLINGNESS TO PAY FOR A GRID CONNECTION

STATIC TEXT

*Respondent should be most knowledgeable member on household electricity. For each household, CAPI will randomly assign one of the six following amounts in the placeholder \${CF}: 0% of the connection fee in local currency and respectively 15%, 30%, 40%, 60%, 70%, 100%.*

<p>Random amount for new connection</p>	<p>NUMERIC: INTEGER Rand_Amt_D</p> <p>SCOPE: IDENTIFYING</p> <p>-----</p>
<p>D2. Enumerator: Record Respondent name for this section</p> <p>E C2 == 2</p>	<p>SINGLE-SELECT: LINKED D2</p>

STATIC TEXT

E C2 == 2

*Electricity requires several types of payments. There are three parts to the cost of electricity: connection, wiring, and monthly use. In other words, to use electricity you need to have a wire from a meter in your house to the pole first. That is the connection. You also need to have wires to connect appliances within your house to the meter. This is the wiring. Finally, to keep using electricity you must pay for what is used and measured by the meter, or it will be turned off, this is the cost of monthly use. I would like to ask you questions only about the first cost of connecting – getting a wire from the electricity poles to a meter on your house. If you could pay a “lump sum” price for an electricity connection, in other words, you are offered a price and a period of time to decide whether to take this price. If you decide to take the price, you have to pay all at once, after which you are immediately connected. As you answer the next few questions, assume that all other wiring fees and monthly service fees for using electricity, once you have the connection, remain the same as they are now.*

<p>D3.Would you be willing to pay NPR %Rand_Amt_D% for an electricity connection?</p>	<p>SINGLE-SELECT D3</p> <p>01 <input type="radio"/> Yes</p>
---	---

E C2 == 2	02 <input type="radio"/> No
Please enter the amount displayed %Rand_Amt_D%	NUMERIC: DECIMAL D3 Amount -----
E C2 == 2	
VARIABLE (Rand_Amt_D/3)	DOUBLE Rand Amt D 3
D4.Would you be willing to pay NPR %Rand_Amt_D% for an electricity connection, if you were given 3 months to make the payment?	SINGLE-SELECT D4 001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't Know
E D3 == 2	
Please enter the amount displayed %Rand_Amt_D%	NUMERIC: INTEGER D4 Amount -----
E D3 == 2	
VARIABLE Rand_Amt_D/6	DOUBLE Rand_Amt_D_6
D5.Would you be willing to pay NPR %Rand_Amt_D% for an electricity connection, if you were given 6 months to make the payment?	SINGLE-SELECT D5 001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't Know
E D4 == 2	
Please enter the amount displayed %Rand_Amt_D%	NUMERIC: DECIMAL D5 Amount -----
E D4 == 2	
VARIABLE Rand_Amt_D/12	DOUBLE Rand_Amt_D_12
D6.Would you be willing to pay NPR %Rand_Amt_D% for an electricity connection, if you were given 12 months to make the payment?	SINGLE-SELECT D6 001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't Know
E D5 == 2	
Please enter the amount displayed %Rand_Amt_D%	NUMERIC: DECIMAL D6_Amount -----
E D5 == 2	
D7.If the connection fee were waived, would you get a grid connection?	SINGLE-SELECT D7 001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't Know
E D6 == 2    D6 == 888	
D8.Why would you not accept the offer?	SINGLE-SELECT D8 001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need electricity 003 <input type="radio"/> Electricity service is unreliable 004 <input type="radio"/> Monthly fee is too expensive 555 <input type="radio"/> Other, specify
E D7 == 2    D7 == 888	
D8. Specify Others	TEXT D8_SO

E D8 == 555	-----
<p>D9.How much do you think it would cost to do all the internal electrical wiring in your house?</p> <p>I Don't Know.....888</p> <p>E D7 == 2    D7 == 888    D3 == 1    D4 == 1    D5 == 1    D6 == 1</p>	<p>NUMERIC: INTEGER <span style="float: right;">D9</span></p> <p>-----</p>
<p>D10.Think about the amount you would need to spend each month for electricity, not the connection fee. How much would you need to spend each month for electricity?</p> <p>I Don't Know.....888</p> <p>E D7 == 2    D7 == 888</p>	<p>NUMERIC: INTEGER <span style="float: right;">D10</span></p> <p>-----</p>

## E. WILLINGNESS TO PAY FOR IMPROVED ELECTRICITY SUPPLY

<p>Enter the amount for improved electricity supply displayed above:</p>	<p>NUMERIC: INTEGER <span style="float: right;">Amount_E</span> SCOPE: IDENTIFYING</p> <p>-----</p>
<p>E2. Do you experience electricity outages?</p> <p>E C2 == 1</p>	<p>SINGLE-SELECT <span style="float: right;">E2</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>E3.Did the household experience power outages 1 year ago?</p> <p>E E2 == 1</p>	<p>SINGLE-SELECT <span style="float: right;">E3</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>E4.How many days of electricity outages one year ago did you experience on a typical month?</p> <p>E E3 == 1</p> <p>V1 self &lt;33</p> <p>M1 Error! Please enter less than or equal to 32.</p>	<p>NUMERIC: INTEGER <span style="float: right;">E4</span></p> <p>-----</p>
<p>E5.Would you be willing to pay an additional %Amount_E% on your monthly electricity bill to avoid going back to the experience of the power outages from 1 year ago?</p> <p>E E3 == 1</p>	<p>SINGLE-SELECT <span style="float: right;">E5</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>E6.How much would you be willing to pay additional, at the most, to avoid experiencing same level of electricity outages as one year ago?</p> <p>I In NPR.</p> <p>E E3 == 1</p> <p>V1 (self &gt;= Amount_E &amp;&amp; E5 == 1)    (self &lt; Amount_E &amp;&amp; E5 == 2)</p> <p>M1 Error ! Please check.</p>	<p>NUMERIC: DECIMAL <span style="float: right;">E6</span></p> <p>-----</p>

## F. WILLINGNESS TO PAY FOR SOLAR DEVICE

STATIC TEXT

For each household, CAPI will 1) randomly assign a Tier 2 (high capacity: enough to power a television) or Tier 1 (low capacity: multiple lightbulbs and mobile charging) solar home system; and 2) randomly one of the three following amounts in the placeholder  $\{CF\}$ : 33%, 66%, or 100% of the solar device in local currency. We will have the market price for the selected.

F2.Enumerator: Record Respondent name for this section	SINGLE-SELECT: LINKED	F2
--	-----------------------	----

STATIC TEXT

We will ask you questions about a solar home system. Enumerator: show picture and describe what the solar home system can and can't do and the benefits of using a solar home system.[INSERT DESCRIPTION OF SOLAR DEVICE] If you could pay a "lump sum" price for this solar device; in other words, you are offered a price and if you decide to buy the device, you will have to pay it all at once. As you answer the next few questions, keep in mind the various benefits from this device as well as your household budget.

CF	NUMERIC: INTEGER SCOPE: IDENTIFYING	CF_F
----	--	------

F3.Would you be willing to pay %CF_F% for this solar device?	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	F3
--	--	----

VARIABLE CF_F/6	DOUBLE	CF_6
--------------------	--------	------

F4.Would you be willing to pay %CF_F% for this solar device, if you were given 6 months to make the payment?	SINGLE-SELECT 001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't Know	F4
--	--	----

E F3 == 2

VARIABLE CF_F/12	DOUBLE	CF_12
---------------------	--------	-------

F5.Would you be willing to pay %CF_F% for this solar device, if you were given 12 months to make the payment?	SINGLE-SELECT 001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't Know	F5
---	--	----

E F4 ==2 || F4 == 888

VARIABLE CF_F / 24	DOUBLE	CF_24
-----------------------	--------	-------

F6.Would you be willing to pay %CF_F% for this solar device, if you were given 24 months to make the payment? This means that each month you will pay $\{CF/24\}$ per month for 24 months.	SINGLE-SELECT 001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't Know	F6
--	--	----

E F5 == 2 || F5 == 888

F7.Why would you not accept the offer?	SINGLE-SELECT 001 <input type="radio"/> Cannot afford the payment 002 <input type="radio"/> Do not need electricity 003 <input type="radio"/> Maintenance/servicing of device is not available 555 <input type="radio"/> Other, specify	F7
--	---	----

E F6 == 2 || F6 == 888

F7. Others Specify	TEXT	F7_SO
--------------------	------	-------

E F7 == 555

## G. KEROSENE/FUEL-BASED /CANDLE LIGHTING

G1. Enumerator: Record Respondent name for this section	SINGLE-SELECT: LINKED	G1
---	-----------------------	----

### G. KEROSENE/FUEL-BASED /CANDLE LIGHTING FUEL LAMP/ CANDLE/ TASK LIGHT

G3. In the last 12 months, did you use [NAME FROM THE LIST]	MULTI-SELECT 001 <input type="checkbox"/> Candle 002 <input type="checkbox"/> Open wick lamp 003 <input type="checkbox"/> Hurricane lamp with glass cover 004 <input type="checkbox"/> Pressurized mantle lamp 005 <input type="checkbox"/> None 555 <input type="checkbox"/> Other Specify	FLCT
Specify Others E FLCT.Contains (555)	TEXT .....	G3_SO

### G. KEROSENE/FUEL-BASED /CANDLE LIGHTING / FUEL LAMP/ CANDLE/ TASK LIGHT Roster: FUEL LAMP/ CANDLE/ TASK LIGHT generated by multi-select question FLCT

ROSTER\_G

E FLCT.ContainsAny(1, 2, 3, 4, 555)

G2. Enter the name of respondent	SINGLE-SELECT: LINKED	G2
G4.What is the main fuel source for %rostertitle%? E ((long?)@rowcode) .InList (2, 3, 4, 5, 555)	SINGLE-SELECT 001 <input type="radio"/> Kerosene 002 <input type="radio"/> Biogas 003 <input type="radio"/> Edible Oil 555 <input type="radio"/> Other, specify	G4
G4. Specify Others E G4 == 555	TEXT .....	G4_SO
G5. How many of these lamps does your household have? E ((long?)@rowcode) .InList (2, 3, 4, 5, 555) V1 self < 6 M1 Too many . Please check.	NUMERIC: INTEGER -----	G5
G6.How much did you pay for each %rostertitle%? I If more than 1 device, input the average E ((long?)@rowcode) .InList (2, 3, 4, 5, 555)	TEXT .....	G6
G7.In the last 12 months, how many months did you use %rostertitle%? I Don't know .....888 E FLCT.ContainsAny(1, 2, 3, 4) V1 self <= 12    self==888	NUMERIC: INTEGER -----	G7

<p>M1 Please enter less than or equal to 12</p> <p><b>G8.In the last month, how many days did you use %rostertitle%?</b></p> <p>E FLCT.ContainsAny(1,2,3,4) V1 self &lt;= 32 M1 Please enter less than or equal to 32.</p>	<p>NUMERIC: INTEGER <span style="float:right">G8</span></p> <p>-----</p>
<p><b>G9.How many hours do you use %rostertitle% each day?</b></p> <p>I If less than 1 hour, input 0 E FLCT.ContainsAny(1,2,3,4) V1 self &lt;= 24 M1 Please enter less than or equal to 24.</p>	<p>NUMERIC: DECIMAL <span style="float:right">G9</span></p> <p>-----</p>
<p><b>G13.What don't you like most about using the %rostertitle%?</b></p> <p>I 2 Options. E FLCT.ContainsAny(1,2,3,4)</p>	<p>MULTI-SELECT <span style="float:right">G13</span></p> <p>001 <input type="checkbox"/> Lantern too expensive 002 <input type="checkbox"/> Fuel too expensive 003 <input type="checkbox"/> Fuel not available 004 <input type="checkbox"/> Accidents can happen 005 <input type="checkbox"/> Bad for health 006 <input type="checkbox"/> Subsidies needed 007 <input type="checkbox"/> Time spent to collect fuel 555 <input type="checkbox"/> Other, specify 111 <input type="checkbox"/> No problems</p>
<p><b>G13. Specify Others</b></p> <p>E G13.Contains(555)</p>	<p>TEXT <span style="float:right">G13_SO</span></p> <p>.....</p>
<p><b>G14.In the last 12 months, what type of harm/injury did any household members have from %rostertitle%?</b></p> <p>E FLCT.ContainsAny(1,2,3,4)</p>	<p>MULTI-SELECT <span style="float:right">G14</span></p> <p>001 <input type="checkbox"/> Death or permanent limb damage 002 <input type="checkbox"/> Burns/fire 003 <input type="checkbox"/> Poisoning 004 <input type="checkbox"/> Eye problems 005 <input type="checkbox"/> Respiratory problem 006 <input type="checkbox"/> Other major injury 007 <input type="checkbox"/> Minor injury 008 <input type="checkbox"/> Fire with no injury 111 <input type="checkbox"/> None</p>
<p><b>G15. What is the main source of lighting the children who are currently enrolled in school usually use for studying/doing homework?</b></p> <p>I Single Response E FLCT.ContainsAny(1,2,3,4)</p>	<p>SINGLE-SELECT <span style="float:right">G15</span></p> <p>001 <input type="radio"/> Electric lighting/lamp 002 <input type="radio"/> Solar powered light source 003 <input type="radio"/> Battery-operated light source 004 <input type="radio"/> Street lighting 005 <input type="radio"/> Kerosene lamp 006 <input type="radio"/> Candles 007 <input type="radio"/> Biogas lamps 008 <input type="radio"/> No school going children 555 <input type="radio"/> Other, specify 111 <input type="radio"/> Studying and homework only during daylight hours</p>

G. KEROSENE/FUEL-BASED /CANDLE LIGHTING  
KEROSENE

E ROSTER\_G.Any(x=>x.G4 == 1)

<p>G2.C. What is the total quantity of kerosene you purchase at a typical time?</p> <p>I LITERS OF FUEL</p>	<p>NUMERIC: INTEGER <span style="float: right;">G2C</span></p> <p>-----</p>
<p>G2.D. How long does this quantity of kerosene typically last?</p> <p>I Days</p> <p>V1 self &lt; 366</p> <p>M1 Please enter less than 365.</p>	<p>NUMERIC: INTEGER <span style="float: right;">G2 D</span></p> <p>-----</p>
<p>G2.E. How much do you pay in total for the amount of fuel you purchased?</p> <p>I LOCAL CURRENCY</p>	<p>NUMERIC: INTEGER <span style="float: right;">G2 E</span></p> <p>-----</p>
<p>G2.F. What is the percentage of this kerosene you use for lighting?</p> <p>V1 self &lt; 101</p> <p>M1 Please enter in range 0-100.</p>	<p>NUMERIC: INTEGER <span style="float: right;">G2_F</span></p> <p>-----</p>

G. KEROSENE/FUEL-BASED /CANDLE LIGHTING  
CANDLE

E FLCT.Contains (1)

<p>G2.C.C. What is the total quantity of Candle you purchase at a typical time?</p> <p>I Number of Candles</p>	<p>NUMERIC: INTEGER <span style="float: right;">G2C C</span></p> <p>-----</p>
<p>G2.D.C. How long does this quantity of Candle typically last?</p> <p>I Days</p>	<p>NUMERIC: INTEGER <span style="float: right;">G2_D_C</span></p> <p>-----</p>
<p>G2.E.C How much do you pay in total for the amount of fuel you purchased?</p> <p>I LOCAL CURRENCY</p>	<p>NUMERIC: INTEGER <span style="float: right;">G2 E C</span></p> <p>-----</p>

## H.DRY-CELL BATTERIES

<p>H1.Enumerator: Record Respondent name for this section</p>	<p>SINGLE-SELECT: LINKED <span style="float: right;">H1</span></p>
<p>H3.In the last 12 months, did you use dry cell batteries to power [NAME FROM THE LIST]</p>	<p>MULTI-SELECT: YES/NO <span style="float: right;">H3</span></p> <p>001 <input type="checkbox"/> / <input type="checkbox"/> Lanterns</p> <p>002 <input type="checkbox"/> / <input type="checkbox"/> Flashlights</p> <p>003 <input type="checkbox"/> / <input type="checkbox"/> Task lights</p> <p>004 <input type="checkbox"/> / <input type="checkbox"/> Radio</p> <p>111 <input type="checkbox"/> / <input type="checkbox"/> None</p> <p>555 <input type="checkbox"/> / <input type="checkbox"/> Other, specify</p>
<p>H3.Specify Others</p>	<p>TEXT <span style="float: right;">H3_SO</span></p> <p>-----</p>



E H3.Yes.Contains (555)

H.DRY-CELL BATTERIES  
Roster: LIGHT SOURCE  
generated by multi-select question H3

R\_LS

E H3.Yes.ContainsAny (1,2,3,4,555)

STATIC TEXT

**LIGHT SOURCE**

<p>H4.How many of %rostertitle% does your household power with dry cell batteries?</p> <p>V1 self &lt; 6 M1 Too many. Please Check.</p>	<p>NUMERIC: INTEGER H4</p> <p>-----</p>
<p>H5.How much did you pay for each %rostertitle% on average?</p> <p>I If paying in installment, enter total value of payments,If more than 1 device, input the average.</p>	<p>NUMERIC: INTEGER H5</p> <p>-----</p>
<p>H6.In the last 12 months, how many months did you use %rostertitle%?</p> <p>I if less than 1 month write 0 V1 self &lt;= 12 M1 Please enter less than or equal to 12.</p>	<p>NUMERIC: INTEGER H6</p> <p>-----</p>
<p>H7.How many minutes do you use %rostertitle% each day on a typical day?</p> <p>V1 self &lt;= 1440 M1 Please enter less than or equal to 1440.</p>	<p>NUMERIC: INTEGER H7</p> <p>-----</p>
<p>H8.Do you use %rostertitle% as a regular source of lighting or only as a back-up source when the main source is not available?</p> <p>E ((long?)@rowcode) .InList (1,2,3,555)</p>	<p>SINGLE-SELECT H8</p> <p>01 <input type="radio"/> Regular source of lighting 02 <input type="radio"/> Back-up source of lighting 03 <input type="radio"/> No light available</p>
<p>H9.How many of dry cell batteries do you purchase each month?</p> <p>E H3.Yes.ContainsAny (1,2,3,4,555)</p>	<p>NUMERIC: INTEGER H9</p> <p>-----</p>
<p>H10.How much do you spend each month on dry cell batteries?</p> <p>I NPR E H3.Yes.ContainsAny (1,2,3,4,555) V1 self &lt; 100001 M1 Too much. Please check.</p>	<p>NUMERIC: INTEGER H10</p> <p>-----</p>

**I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING**

<p>Chose respondent who most frequently cooks food for the household.</p>	<p>SINGLE-SELECT: LINKED Respondent_ID_I</p>
<p>I2.Fuel Type</p>	<p>MULTI-SELECT I2</p> <p>01 <input type="checkbox"/> LPG/ cooking gas</p>

- 02  Wood
- 04  Charcoal
- 05  Solar
- 06  Kerosene
- 09  Animal waste/ Dung
- 10  Crop Residue/ Plant Biomass
- 11  Sawdust
- 13  Biomass Briquette
- 14  Electric
- 15  Pellets/ processed biomass/  
wood chips
- 16  Biogas
- 18  Garbage

I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING  
A. LPG/ COOKING GAS

E I2.Contains(1)

I3.In the last 12 months, did your house-hold use this LPG/Cooking gas?

SINGLE-SELECT

I3\_LC

- 01  Yes
- 02  No

I4.In the last 12 months, what did your household use LPG/Cooking gas for?

MULTI-SELECT

I4 I10 LC

E I3\_LC == 1

- 01  LIGHTING
- 02  COOKING
- 03  HEATING
- 04  FIRE STARTER/ IGNITION
- 05  BOILING WATER
- 06  HOME-BASED INCOME  
ACTIVITY

I11. In the last 12 months, in which months did you use this LPG/Cooking gas?

MULTI-SELECT

I11 LC

E I3\_LC == 1

- 111  Used all year
- 001  13th April-13th May
- 002  14th May-14th June
- 003  15th June-15th July
- 004  16th July-16th August
- 005  17th August-16th September
- 006  17th September-16th October
- 007  17th October-15th November
- 008  16th November-15th  
December
- 009  16th December-13th January
- 010  14th January-11th February
- 011  12th February-13th March
- 012  14th March-13th April
- 888  Don't Know

I12.In the last 12 months, in which months was this LPG/Cooking gas scarce and significantly more expensive?

MULTI-SELECT

I12 LC

E I3\_LC == 1

- 111  Available all year
- 001  13th April-13th May
- 002  14th May-14th June
- 003  15th June-15th July
- 004  16th July-16th August
- 005  17th August-16th September
- 006  17th September-16th October

- 007  17th October-15th November
- 008  16th November-15th December
- 009  16th December-13th January
- 010  14th January-11th February
- 011  12th February-13th March
- 012  14th March-13th April
- 888  Don't Know

I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING  
**B. WOOD**

E I2.Contains (2)

<p>I3.In the last 12 months, did your house-hold use this Wood ?</p>	<p style="text-align: right;">SINGLE-SELECT <span style="float: right;">I3 WP</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>I4.In the last 12 months, what did your household use Wood for?</p> <p>E I3_WP == 1</p>	<p style="text-align: right;">MULTI-SELECT <span style="float: right;">I4 I10 WP</span></p> <p>01 <input type="checkbox"/> LIGHTING</p> <p>02 <input type="checkbox"/> COOKING</p> <p>03 <input type="checkbox"/> HEATING</p> <p>04 <input type="checkbox"/> FIRE STARTER/ IGNITION</p> <p>05 <input type="checkbox"/> BOILING WATER</p> <p>06 <input type="checkbox"/> HOME-BASED INCOME ACTIVITY</p>
<p>I11. In the last 12 months, in which months did you use this Wood?</p> <p>E I3_WP == 1</p>	<p style="text-align: right;">MULTI-SELECT <span style="float: right;">I11 WP</span></p> <p>111 <input type="checkbox"/> Used all year</p> <p>001 <input type="checkbox"/> 13th April-13th May</p> <p>002 <input type="checkbox"/> 14th May-14th June</p> <p>003 <input type="checkbox"/> 15th June-15th July</p> <p>004 <input type="checkbox"/> 16th July-16th August</p> <p>005 <input type="checkbox"/> 17th August-16th September</p> <p>006 <input type="checkbox"/> 17th September-16th October</p> <p>007 <input type="checkbox"/> 17th October-15th November</p> <p>008 <input type="checkbox"/> 16th November-15th December</p> <p>009 <input type="checkbox"/> 16th December-13th January</p> <p>010 <input type="checkbox"/> 14th January-11th February</p> <p>011 <input type="checkbox"/> 12th February-13th March</p> <p>012 <input type="checkbox"/> 14th March-13th April</p> <p>888 <input type="checkbox"/> Don't Know</p>
<p>I12.In the last 12 months, in which months was this Wood scarce and significantly more expensive?</p> <p>E I3_WP == 1</p>	<p style="text-align: right;">MULTI-SELECT <span style="float: right;">I12 WP</span></p> <p>111 <input type="checkbox"/> Available all year</p> <p>001 <input type="checkbox"/> 13th April-13th May</p> <p>002 <input type="checkbox"/> 14th May-14th June</p> <p>003 <input type="checkbox"/> 15th June-15th July</p> <p>004 <input type="checkbox"/> 16th July-16th August</p> <p>005 <input type="checkbox"/> 17th August-16th September</p> <p>006 <input type="checkbox"/> 17th September-16th October</p> <p>007 <input type="checkbox"/> 17th October-15th November</p> <p>008 <input type="checkbox"/> 16th November-15th December</p> <p>009 <input type="checkbox"/> 16th December-13th January</p> <p>010 <input type="checkbox"/> 14th January-11th February</p>

- 011  12th February-13th March
- 012  14th March-13th April
- 888  Don't Know

<p>I13.In the last 7 days, how much of this Wood did your household use?</p> <p>I kg E I3_WP == 1</p>	<p>NUMERIC: INTEGER I13_WP</p> <p>-----</p>
<p>I15.How much of this Wood did you purchase?</p> <p>I kg,DO NOT PURCHASE....111 E I13_WP &gt; 0</p>	<p>NUMERIC: INTEGER I15_WP</p> <p>-----</p>
<p>I16.How long does this quantity of Wood typically last?</p> <p>E I15_WP&gt;0 &amp;&amp; I15_WP != 111</p>	<p>NUMERIC: INTEGER I16_WP</p> <p>-----</p>
<p>I17.How much did you pay for the amount of Wood that you purchased?</p> <p>E I15_WP&gt;0 &amp;&amp; I15_WP != 111</p>	<p>NUMERIC: INTEGER I17_WP</p> <p>-----</p>

I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING  
D. CHARCOAL

E I2.Contains(4)

<p>I3.In the last 12 months, did your house-hold use this Charcoal?</p>	<p>SINGLE-SELECT I3_CC</p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>I4.In the last 12 months, what did your household use Charcoal for?</p> <p>E I3_CC == 1</p>	<p>MULTI-SELECT I4_I10_CC</p> <p>01 <input type="checkbox"/> LIGHTING 02 <input type="checkbox"/> COOKING 03 <input type="checkbox"/> HEATING 04 <input type="checkbox"/> FIRE STARTER/ IGNITION 05 <input type="checkbox"/> BOILING WATER 06 <input type="checkbox"/> HOME-BASED INCOME ACTIVITY</p>
<p>I11. In the last 12 months, in which months did you use this Charcoal?</p> <p>E I3_CC == 1</p>	<p>MULTI-SELECT I11_CC</p> <p>111 <input type="checkbox"/> Used all year 001 <input type="checkbox"/> 13th April-13th May 002 <input type="checkbox"/> 14th May-14th June 003 <input type="checkbox"/> 15th June-15th July 004 <input type="checkbox"/> 16th July-16th August 005 <input type="checkbox"/> 17th August-16th September 006 <input type="checkbox"/> 17th September-16th October 007 <input type="checkbox"/> 17th October-15th November 008 <input type="checkbox"/> 16th November-15th December 009 <input type="checkbox"/> 16th December-13th January 010 <input type="checkbox"/> 14th January-11th February 011 <input type="checkbox"/> 12th February-13th March 012 <input type="checkbox"/> 14th March-13th April 888 <input type="checkbox"/> Don't Know</p>
<p>I12.In the last 12 months, in which months was</p>	<p>MULTI-SELECT I12_CC</p>

this Charcoal scarce and significantly more expensive?

E I3\_CC == 1

- 111  Available all year
- 001  13th April-13th May
- 002  14th May-14th June
- 003  15th June-15th July
- 004  16th July-16th August
- 005  17th August-16th September
- 006  17th September-16th October
- 007  17th October-15th November
- 008  16th November-15th December
- 009  16th December-13th January
- 010  14th January-11th February
- 011  12th February-13th March
- 012  14th March-13th April
- 888  Don't Know

I13.In the last 7 days, how much of this Charcoal did your household use?

NUMERIC: INTEGER I13\_CC

I kg  
E I3\_CC == 1

I15.How much of this Charcoal did you purchase?

NUMERIC: INTEGER I15\_CC

I kg,DO NOT PURCHASE....111  
E I13\_CC > 0

I16.How long does this quantity of Charcoal typically last?

NUMERIC: INTEGER I16\_CC

E I15\_CC > 0 && I15\_CC != 111

I17.How much did you pay for the amount of Charcoal that you purchased?

NUMERIC: INTEGER I17\_CC

E I15\_CC > 0 && I15\_CC != 111

### I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING E. SOLAR

E I2.Contains(5)

I3.In the last 12 months, did your house-hold use this Solar?

SINGLE-SELECT I3\_SL

- 01  Yes
- 02  No

I4.In the last 12 months, what did your household use Solar for?

MULTI-SELECT I4 I10\_SL

E I3\_SL == 1

- 01  LIGHTING
- 02  COOKING
- 03  HEATING
- 04  FIRE STARTER/ IGNITION
- 05  BOILING WATER
- 06  HOME-BASED INCOME ACTIVITY

I11. In the last 12 months, in which months did you use this Solar?

MULTI-SELECT I11\_SL

E I3\_SL == 1

- 111  Used all year
- 001  13th April-13th May
- 002  14th May-14th June
- 003  15th June-15th July

- 004  16th July-16th August
- 005  17th August-16th September
- 006  17th September-16th October
- 007  17th October-15th November
- 008  16th November-15th December
- 009  16th December-13th January
- 010  14th January-11th February
- 011  12th February-13th March
- 012  14th March-13th April
- 888  Don't Know

I12. In the last 12 months, in which months was this Solar scarce and significantly more expensive?

E I3\_SL = 1

MULTI-SELECT

I12\_SL

- 111  Available all year
- 001  13th April-13th May
- 002  14th May-14th June
- 003  15th June-15th July
- 004  16th July-16th August
- 005  17th August-16th September
- 006  17th September-16th October
- 007  17th October-15th November
- 008  16th November-15th December
- 009  16th December-13th January
- 010  14th January-11th February
- 011  12th February-13th March
- 012  14th March-13th April
- 888  Don't Know

I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING  
F. KEROSENE

E I2.Contains (6)

I3. In the last 12 months, did your house-hold use this Kerosene?

SINGLE-SELECT

I3\_KS

- 01  Yes
- 02  No

I4. In the last 12 months, what did your household use Kerosene for?

E I3\_KS = 1

MULTI-SELECT

I4\_I10\_KS

- 01  LIGHTING
- 02  COOKING
- 03  HEATING
- 04  FIRE STARTER/ IGNITION
- 05  BOILING WATER
- 06  HOME-BASED INCOME ACTIVITY

I11. In the last 12 months, in which months did you use this Kerosene?

E I3\_KS = 1

MULTI-SELECT

I11\_KS

- 111  Used all year
- 001  13th April-13th May
- 002  14th May-14th June
- 003  15th June-15th July
- 004  16th July-16th August
- 005  17th August-16th September
- 006  17th September-16th October
- 007  17th October-15th November

- 008  16th November-15th December
- 009  16th December-13th January
- 010  14th January-11th February
- 011  12th February-13th March
- 012  14th March-13th April
- 888  Don't Know

I12.In the last 12 months, in which months was this Kerosene scarce and significantly more expensive?

E I3\_KS == 1

MULTI-SELECT

I12\_KS

- 111  Available all year
- 001  13th April-13th May
- 002  14th May-14th June
- 003  15th June-15th July
- 004  16th July-16th August
- 005  17th August-16th September
- 006  17th September-16th October
- 007  17th October-15th November
- 008  16th November-15th December
- 009  16th December-13th January
- 010  14th January-11th February
- 011  12th February-13th March
- 012  14th March-13th April
- 888  Don't Know

I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING  
I. ANIMAL WASTE/DUNG

E I2.Contains (9)

I3.In the last 12 months, did your house-hold use this Animal waste/Dung?

SINGLE-SELECT

I3\_AWD

- 01  Yes
- 02  No

I4.In the last 12 months, what did your household use Animal waste/Dung for?

E I3\_AWD == 1

MULTI-SELECT

I4 I10\_AWD

- 01  LIGHTING
- 02  COOKING
- 03  HEATING
- 04  FIRE STARTER/ IGNITION
- 05  BOILING WATER
- 06  HOME-BASED INCOME ACTIVITY

I11. In the last 12 months, in which months did you use this Animal waste/Dung?

E I3\_AWD == 1

MULTI-SELECT

I11\_AWD

- 111  Used all year
- 001  13th April-13th May
- 002  14th May-14th June
- 003  15th June-15th July
- 004  16th July-16th August
- 005  17th August-16th September
- 006  17th September-16th October
- 007  17th October-15th November
- 008  16th November-15th December
- 009  16th December-13th January
- 010  14th January-11th February
- 011  12th February-13th March

	012 <input type="checkbox"/> 14th March-13th April 888 <input type="checkbox"/> Don't Know
I12.In the last 12 months, in which months was this Animal waste/Dung scarce and significantly more expensive?  E I3_AWD == 1	MULTI-SELECT I12_AWD 111 <input type="checkbox"/> Available all year 001 <input type="checkbox"/> 13th April-13th May 002 <input type="checkbox"/> 14th May-14th June 003 <input type="checkbox"/> 15th June-15th July 004 <input type="checkbox"/> 16th July-16th August 005 <input type="checkbox"/> 17th August-16th September 006 <input type="checkbox"/> 17th September-16th October 007 <input type="checkbox"/> 17th October-15th November 008 <input type="checkbox"/> 16th November-15th December 009 <input type="checkbox"/> 16th December-13th January 010 <input type="checkbox"/> 14th January-11th February 011 <input type="checkbox"/> 12th February-13th March 012 <input type="checkbox"/> 14th March-13th April 888 <input type="checkbox"/> Don't Know
I13.In the last 7 days, how much of this Animal waste/Dung did your household use?  I kg E I3_AWD == 1	NUMERIC: INTEGER I13_AWD -----
I15.How much of this Animal waste/Dung did you purchase?  I kg,DO NOT PURCHASE....111 E I13_AWD > 0	NUMERIC: INTEGER I15_AWS -----
I16.How long does this quantity of Animal waste/Dung typically last?  E I15_AWS > 0 && I15_AWS != 111	NUMERIC: INTEGER I16_AWS -----
I17.How much did you pay for the amount of Animal waste/Dung that you purchased?  E I15_AWS > 0 && I15_AWS != 111	NUMERIC: INTEGER I17_AWS -----

I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING  
J. CROP RESIDUE/ PLANT BIOMASS

E I2.Contains(10)

I3.In the last 12 months, did your house-hold use this Crop Residue/ Plant Biomass?	SINGLE-SELECT I3_CRPB 01 <input type="radio"/> Yes 02 <input type="radio"/> No
I4.In the last 12 months, what did your household use Crop Residue/ Plant Biomass for?  E I3_CRPB == 1	MULTI-SELECT I4 I10_CRPB 01 <input type="checkbox"/> LIGHTING 02 <input type="checkbox"/> COOKING 03 <input type="checkbox"/> HEATING 04 <input type="checkbox"/> FIRE STARTER/ IGNITION 05 <input type="checkbox"/> BOILING WATER 06 <input type="checkbox"/> HOME-BASED INCOME ACTIVITY
I11. In the last 12 months, in which months did	MULTI-SELECT I11_CRPB



you use this Crop Residue/ Plant Biomass?

E I3\_CRPB == 1

- 111  Used all year
- 001  13th April-13th May
- 002  14th May-14th June
- 003  15th June-15th July
- 004  16th July-16th August
- 005  17th August-16th September
- 006  17th September-16th October
- 007  17th October-15th November
- 008  16th November-15th December
- 009  16th December-13th January
- 010  14th January-11th February
- 011  12th February-13th March
- 012  14th March-13th April
- 888  Don't Know

I12.In the last 12 months, in which months was this Crop Residue/ Plant Biomass scarce and significantly more expensive?

E I3\_CRPB == 1

- MULTI-SELECT I12\_CRPB
- 111  Available all year
  - 001  13th April-13th May
  - 002  14th May-14th June
  - 003  15th June-15th July
  - 004  16th July-16th August
  - 005  17th August-16th September
  - 006  17th September-16th October
  - 007  17th October-15th November
  - 008  16th November-15th December
  - 009  16th December-13th January
  - 010  14th January-11th February
  - 011  12th February-13th March
  - 012  14th March-13th April
  - 888  Don't Know

I13.In the last 7 days, how much of this Crop Residue/ Plant Biomass did your household use?

I kg  
E I3\_CRPB == 1

NUMERIC: INTEGER I13\_CRPB  
-----

I15.How much of this Crop Residue/ Plant Biomass did you purchase?

I kg,DO NOT PURCHASE....111  
E I13\_CRPB > 0

NUMERIC: INTEGER I15\_CRPB  
-----

I16.How long does this quantity of Crop Residue/ Plant Biomass typically last?

E I15\_CRPB > 0 && I15\_CRPB != 111

NUMERIC: INTEGER I16\_CRPB  
-----

I17.How much did you pay for the amount of Crop Residue/ Plant Biomass that you purchased?

E I15\_CRPB > 0 && I15\_CRPB != 111

NUMERIC: INTEGER I17\_CRPB  
-----

I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING  
K. SAWDUST

E I2.Contains(11)

<p>I3.In the last 12 months, did your house-hold use this Sawdust?</p>	<p>SINGLE-SELECT <span style="float:right">I3 SD</span>  01 <input type="radio"/> Yes  02 <input type="radio"/> No</p>
<p>I4.In the last 12 months, what did your household use Sawdust for?</p>	<p>MULTI-SELECT <span style="float:right">I4 I10 SD</span>  01 <input type="checkbox"/> LIGHTING  02 <input type="checkbox"/> COOKING  03 <input type="checkbox"/> HEATING  04 <input type="checkbox"/> FIRE STARTER/ IGNITION  05 <input type="checkbox"/> BOILING WATER  06 <input type="checkbox"/> HOME-BASED INCOME ACTIVITY</p>
<p>I11. In the last 12 months, in which months did you use this Sawdust?</p>	<p>MULTI-SELECT <span style="float:right">I11_SD</span>  111 <input type="checkbox"/> Used all year  001 <input type="checkbox"/> 13th April-13th May  002 <input type="checkbox"/> 14th May-14th June  003 <input type="checkbox"/> 15th June-15th July  004 <input type="checkbox"/> 16th July-16th August  005 <input type="checkbox"/> 17th August-16th September  006 <input type="checkbox"/> 17th September-16th October  007 <input type="checkbox"/> 17th October-15th November  008 <input type="checkbox"/> 16th November-15th December  009 <input type="checkbox"/> 16th December-13th January  010 <input type="checkbox"/> 14th January-11th February  011 <input type="checkbox"/> 12th February-13th March  012 <input type="checkbox"/> 14th March-13th April  888 <input type="checkbox"/> Don't Know</p>
<p>I12.In the last 12 months, in which months was this Sawdust scarce and significantly more expensive?</p>	<p>MULTI-SELECT <span style="float:right">I12_SD</span>  111 <input type="checkbox"/> Available all year  001 <input type="checkbox"/> 13th April-13th May  002 <input type="checkbox"/> 14th May-14th June  003 <input type="checkbox"/> 15th June-15th July  004 <input type="checkbox"/> 16th July-16th August  005 <input type="checkbox"/> 17th August-16th September  006 <input type="checkbox"/> 17th September-16th October  007 <input type="checkbox"/> 17th October-15th November  008 <input type="checkbox"/> 16th November-15th December  009 <input type="checkbox"/> 16th December-13th January  010 <input type="checkbox"/> 14th January-11th February  011 <input type="checkbox"/> 12th February-13th March  012 <input type="checkbox"/> 14th March-13th April  888 <input type="checkbox"/> Don't Know</p>
<p>I13.In the last 7 days, how much of this Sawdust did your household use?</p>	<p>NUMERIC: INTEGER <span style="float:right">I13 SD</span>  -----</p>
<p>I kg  E I3_SD == 1</p>	
<p>I15.How much of this Sawdust did you purchase?</p>	<p>NUMERIC: INTEGER <span style="float:right">I15 SD</span>  -----</p>
<p>I kg,DO NOT PURCHASE....111  E I13_SD &gt; 0</p>	

<p>I16.How long does this quantity of Sawdust typically last?</p> <p>E I15_SD &gt; 0 &amp;&amp; I15_SD != 111</p>	<p>NUMERIC: INTEGER <span style="float: right;">I16_SD</span></p> <p>-----</p>
<p>I17.How much did you pay for the amount of Sawdust that you purchased?</p> <p>E I15_SD &gt; 0 &amp;&amp; I15_SD != 111</p>	<p>NUMERIC: INTEGER <span style="float: right;">I17_SD</span></p> <p>-----</p>

I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING  
**M. BIOMASS BRIQUETTE**

E I2.Contains (13)

<p>I3.In the last 12 months, did your house-hold use this Biomass Briquette?</p>	<p>SINGLE-SELECT <span style="float: right;">I3_BB</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>I4.In the last 12 months, what did your household use Biomass Briquette for?</p>	<p>MULTI-SELECT <span style="float: right;">I4_I10_BB</span></p> <p>01 <input type="checkbox"/> LIGHTING</p> <p>02 <input type="checkbox"/> COOKING</p> <p>03 <input type="checkbox"/> HEATING</p> <p>04 <input type="checkbox"/> FIRE STARTER/ IGNITION</p> <p>05 <input type="checkbox"/> BOILING WATER</p> <p>06 <input type="checkbox"/> HOME-BASED INCOME ACTIVITY</p>
<p>I11. In the last 12 months, in which months did you use this Biomass Briquette?</p>	<p>MULTI-SELECT <span style="float: right;">I11_BB</span></p> <p>111 <input type="checkbox"/> Used all year</p> <p>001 <input type="checkbox"/> 13th April-13th May</p> <p>002 <input type="checkbox"/> 14th May-14th June</p> <p>003 <input type="checkbox"/> 15th June-15th July</p> <p>004 <input type="checkbox"/> 16th July-16th August</p> <p>005 <input type="checkbox"/> 17th August-16th September</p> <p>006 <input type="checkbox"/> 17th September-16th October</p> <p>007 <input type="checkbox"/> 17th October-15th November</p> <p>008 <input type="checkbox"/> 16th November-15th December</p> <p>009 <input type="checkbox"/> 16th December-13th January</p> <p>010 <input type="checkbox"/> 14th January-11th February</p> <p>011 <input type="checkbox"/> 12th February-13th March</p> <p>012 <input type="checkbox"/> 14th March-13th April</p> <p>888 <input type="checkbox"/> Don't Know</p>
<p>I12.In the last 12 months, in which months was this Biomass Briquette scarce and significantly more expensive?</p>	<p>MULTI-SELECT <span style="float: right;">I12_BB</span></p> <p>111 <input type="checkbox"/> Available all year</p> <p>001 <input type="checkbox"/> 13th April-13th May</p> <p>002 <input type="checkbox"/> 14th May-14th June</p> <p>003 <input type="checkbox"/> 15th June-15th July</p> <p>004 <input type="checkbox"/> 16th July-16th August</p> <p>005 <input type="checkbox"/> 17th August-16th September</p> <p>006 <input type="checkbox"/> 17th September-16th October</p> <p>007 <input type="checkbox"/> 17th October-15th November</p> <p>008 <input type="checkbox"/> 16th November-15th December</p> <p>009 <input type="checkbox"/> 16th December-13th January</p> <p>010 <input type="checkbox"/> 14th January-11th February</p> <p>011 <input type="checkbox"/> 12th February-13th March</p>

012  14th March-13th April  
 888  Don't Know

<p>I13.In the last 7 days, how much of this Biomass Briquette did your household use?</p> <p>I kg</p>	<p>NUMERIC: INTEGER I13_BB</p> <p>-----</p>
<p>I15.How much of this Biomass Briquette did you purchase?</p> <p>I kg,DO NOT PURCHASE....111</p> <p>E I13_BB &gt; 0</p>	<p>NUMERIC: INTEGER I15_BB</p> <p>-----</p>
<p>I16.How long does this quantity of Biomass Briquette typically last?</p> <p>E I15_BB &gt; 0 &amp;&amp; I15_BB != 111</p>	<p>NUMERIC: INTEGER I16_BB</p> <p>-----</p>
<p>I17.How much did you pay for the amount of Biomass Briquette that you purchased?</p> <p>E I15_BB &gt; 0 &amp;&amp; I15_BB != 111</p>	<p>NUMERIC: INTEGER I17_BB</p> <p>-----</p>

I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING  
 N. ELECTRIC

E I2.Contains(14)

<p>I3.In the last 12 months, did your house-hold use this Electric?</p>	<p>SINGLE-SELECT I3_EC</p> <p>01 <input type="radio"/> Yes          02 <input type="radio"/> No</p>
<p>I4.In the last 12 months, what did your household use Electric for?</p> <p>E I3_EC &gt; 0</p>	<p>MULTI-SELECT I4_I10_EC</p> <p>01 <input type="checkbox"/> LIGHTING          02 <input type="checkbox"/> COOKING          03 <input type="checkbox"/> HEATING          04 <input type="checkbox"/> FIRE STARTER/ IGNITION          05 <input type="checkbox"/> BOILING WATER          06 <input type="checkbox"/> HOME-BASED INCOME ACTIVITY</p>

I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING  
 O. PELLETS/ PROCESSED BIOMASS/ WOOD CHIP

E I2.Contains(15)

<p>I3.In the last 12 months, did your house-hold use this .Pellets/ processed biomass/ wood chips?</p>	<p>SINGLE-SELECT I3_PB</p> <p>01 <input type="radio"/> Yes          02 <input type="radio"/> No</p>
<p>I4.In the last 12 months, what did your household use Pellets/processed biomass/wood chips for?</p> <p>E I3_PB == 1</p>	<p>MULTI-SELECT I4_I10_PB</p> <p>01 <input type="checkbox"/> LIGHTING          02 <input type="checkbox"/> COOKING          03 <input type="checkbox"/> HEATING          04 <input type="checkbox"/> FIRE STARTER/ IGNITION          05 <input type="checkbox"/> BOILING WATER          06 <input type="checkbox"/> HOME-BASED INCOME ACTIVITY</p>
<p>I11. In the last 12 months, in which months did</p>	<p>MULTI-SELECT I11_PB</p>

you use this Pellets/processed biomass/wood chips?

E I3\_PB == 1

- 111  Used all year
- 001  13th April-13th May
- 002  14th May-14th June
- 003  15th June-15th July
- 004  16th July-16th August
- 005  17th August-16th September
- 006  17th September-16th October
- 007  17th October-15th November
- 008  16th November-15th December
- 009  16th December-13th January
- 010  14th January-11th February
- 011  12th February-13th March
- 012  14th March-13th April
- 888  Don't Know

I12.In the last 12 months, in which months was this Pellets/processed biomass/wood chips scarce and significantly more expensive?

E I3\_PB == 1

- MULTI-SELECT: ORDERED I12\_PB
- 111  Available all year
  - 001  13th April-13th May
  - 002  14th May-14th June
  - 003  15th June-15th July
  - 004  16th July-16th August
  - 005  17th August-16th September
  - 006  17th September-16th October
  - 007  17th October-15th November
  - 008  16th November-15th December
  - 009  16th December-13th January
  - 010  14th January-11th February
  - 011  12th February-13th March
  - 012  14th March-13th April
  - 888  Don't Know

I13.In the last 7 days, how much of this Pellets/processed biomass/wood chips did your household use?

I kg  
E I3\_PB == 1

NUMERIC: INTEGER I13\_PB  
-----

I15.How much of this Pellets/processed biomass/wood chips did you purchase?

I kg,DO NOT PURCHASE....111  
E I13\_PB > 0

NUMERIC: INTEGER I15\_PB  
-----

I16.How long does this quantity of Pellets/processed biomass/wood chips typically last?

E I15\_PB > 0 && I15\_PB != 111

NUMERIC: INTEGER I16\_PB  
-----

I17.How much did you pay for the amount of Pellets/processed biomass/wood chips that you purchased?

E I15\_PB > 0 && I15\_PB != 111

NUMERIC: INTEGER I17\_PB  
-----

I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING  
P. BIOGAS

E I2.Contains (16)

<p>I3.In the last 12 months, did your house-hold use this Biogas?</p>	<p>SINGLE-SELECT <span style="float: right;">I3_BG</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>I4.In the last 12 months, what did your household use Biogas for?</p> <p>E I3_BG = 1</p>	<p>MULTI-SELECT <span style="float: right;">I4 I10_BG</span></p> <p>01 <input type="checkbox"/> LIGHTING</p> <p>02 <input type="checkbox"/> COOKING</p> <p>03 <input type="checkbox"/> HEATING</p> <p>04 <input type="checkbox"/> FIRE STARTER/ IGNITION</p> <p>05 <input type="checkbox"/> BOILING WATER</p> <p>06 <input type="checkbox"/> HOME-BASED INCOME ACTIVITY</p>
<p>I11. In the last 12 months, in which months did you use this Biogas?</p> <p>E I3_BG = 1</p>	<p>MULTI-SELECT <span style="float: right;">I11_BG</span></p> <p>111 <input type="checkbox"/> Used all year</p> <p>001 <input type="checkbox"/> 13th April-13th May</p> <p>002 <input type="checkbox"/> 14th May-14th June</p> <p>003 <input type="checkbox"/> 15th June-15th July</p> <p>004 <input type="checkbox"/> 16th July-16th August</p> <p>005 <input type="checkbox"/> 17th August-16th September</p> <p>006 <input type="checkbox"/> 17th September-16th October</p> <p>007 <input type="checkbox"/> 17th October-15th November</p> <p>008 <input type="checkbox"/> 16th November-15th December</p> <p>009 <input type="checkbox"/> 16th December-13th January</p> <p>010 <input type="checkbox"/> 14th January-11th February</p> <p>011 <input type="checkbox"/> 12th February-13th March</p> <p>012 <input type="checkbox"/> 14th March-13th April</p> <p>888 <input type="checkbox"/> Don't Know</p>
<p>I12.In the last 12 months, in which months was this Biogas scarce and significantly more expensive?</p> <p>E I3_BG = 1</p>	<p>MULTI-SELECT <span style="float: right;">I12_BG</span></p> <p>111 <input type="checkbox"/> Available all year</p> <p>001 <input type="checkbox"/> 13th April-13th May</p> <p>002 <input type="checkbox"/> 14th May-14th June</p> <p>003 <input type="checkbox"/> 15th June-15th July</p> <p>004 <input type="checkbox"/> 16th July-16th August</p> <p>005 <input type="checkbox"/> 17th August-16th September</p> <p>006 <input type="checkbox"/> 17th September-16th October</p> <p>007 <input type="checkbox"/> 17th October-15th November</p> <p>008 <input type="checkbox"/> 16th November-15th December</p> <p>009 <input type="checkbox"/> 16th December-13th January</p> <p>010 <input type="checkbox"/> 14th January-11th February</p> <p>011 <input type="checkbox"/> 12th February-13th March</p> <p>012 <input type="checkbox"/> 14th March-13th April</p> <p>888 <input type="checkbox"/> Don't Know</p>

I. HOUSEHOLD FUEL CONSUMPTION FOR COOKING  
**R. GARBAGE**

E I2.Contains (18)

<p>I3.In the last 12 months, did your house-hold use this Garbage?</p>	<p>SINGLE-SELECT <span style="float: right;">I3_GP</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
--	--

I4. In the last 12 months, what did your household use Garbage for?

E I3\_GP == 1

MULTI-SELECT

I4\_GP

- 01  LIGHTING
- 02  COOKING
- 03  HEATING
- 04  FIRE STARTER/ IGNITION
- 05  BOILING WATER
- 06  HOME-BASED INCOME ACTIVITY

## J. USE OF COOKING SOLUTIONS

Enumerator: Record Respondent name for this section

SINGLE-SELECT: LINKED

J1

J1A. How many cookstoves does your household use?

NUMERIC: INTEGER

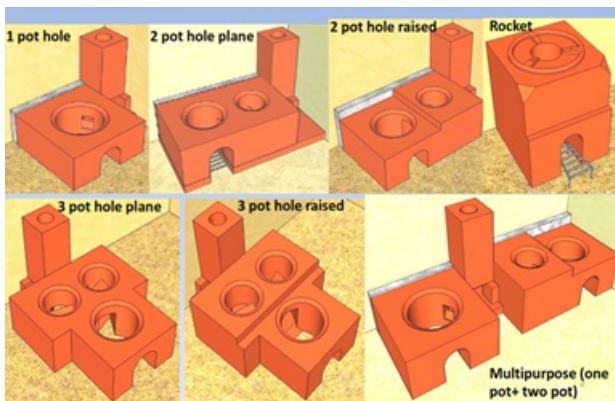
J1A

- I Number of cookstoves
- V1 self < 11
- M1 Too many stoves. Please check.

-----

STATIC TEXT

*COOK Stove PHOTO*



STATIC TEXT

*Cook Stove Photo*



J3. In the last 12 months, which cookstove(s) did your household use for only preparing meals?

I List upto 5

MULTI-SELECT

J3

- 01  3-Stone/Open fire stove
- 02  Traditional stove
- 03  Improved stove
- 04  Biogas stove

- 05  Kerosene stove
- 06  Solar Cooker
- 07  LPG/Natural gas stove
- 08  Electric/Induction/rice cooker

J. USE OF COOKING SOLUTIONS  
 Roster: COOKSTOVE ID  
 generated by multi-select question J3

CSID

<p>Enter the ID</p>	<p>LIST J2</p> <p>.....</p>
<p>J4. How did you obtain this %rosteritle%?        E ((long?)@rowcode) .InList (3,4,5,6,7,8)</p>	<p>SINGLE-SELECT J4</p> <p>01 <input type="radio"/> Purchased</p> <p>02 <input type="radio"/> Receive for free</p>
<p>J5. Who decided to build/ purchase this %rosteritle%?        E J4 == 1</p>	<p>SINGLE-SELECT: LINKED J5</p>
<p>J6. How much did you pay for %rosteritle%?        E J4 == 1</p>	<p>NUMERIC: INTEGER J6</p> <p>-----</p>
<p>J7. Who gave %rosteritle% to you?        E J6 &lt; 0    J4 == 2</p>	<p>SINGLE-SELECT J7</p> <p>001 <input type="radio"/> Local private organizations (NGO)</p> <p>002 <input type="radio"/> Chief of village</p> <p>003 <input type="radio"/> Local govt</p> <p>004 <input type="radio"/> Friend/ relative</p> <p>555 <input type="radio"/> Other, specify</p>
<p>J7. Specify Others        E J7 == 555</p>	<p>TEXT J7 SO</p> <p>.....</p>
<p>J8. Did you receive training or information on %rosteritle%?        E J6 &lt; 0</p>	<p>SINGLE-SELECT J8</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>J9. Did you ever receive an after-sales training?        E J8 == 1</p>	<p>SINGLE-SELECT J9</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>J10. What is the manufacturer and model of %rosteritle%?        E ((long?)@rowcode) .InList (3,4,5,6,7,8)</p>	<p>TEXT J10</p> <p>.....</p>
<p>J11. If you want to sell %rosteritle% in your community today, how much would you receive?        I Don't know...888        E ((long?)@rowcode) .InList (3,4,5,6,7,8)</p>	<p>NUMERIC: INTEGER J11</p> <p>-----</p>
<p>J12. Is %rosteritle% a metal stove?        E ((long?)@rowcode) .InList (3,4,5,6,7,8)</p>	<p>SINGLE-SELECT J12</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>



<p>J13.How many working burners/ potholes does %rostertitle% have?</p> <p>E ((long?)@rowcode).InList(2,3,4,5,6,7,8)</p> <p>V1 self &lt; 7</p> <p>M1 Too Many. Check</p>	<p>NUMERIC: INTEGER</p> <p>J13</p> <p>-----</p>
<p>J14.How long have you been using %rostertitle% for?</p> <p>I YEARS and MONTHS,Don't Know ...888</p>	<p>NUMERIC: DECIMAL</p> <p>J14</p> <p>-----</p>
<p>J15.In the last 12 months, during which of the following months did you use %rostertitle%?</p>	<p>MULTI-SELECT</p> <p>J15</p> <p>111 <input type="checkbox"/> Used all year</p> <p>001 <input type="checkbox"/> 13th April-13th May</p> <p>002 <input type="checkbox"/> 14th May-14th June</p> <p>003 <input type="checkbox"/> 15th June-15th July</p> <p>004 <input type="checkbox"/> 16th July-16th August</p> <p>005 <input type="checkbox"/> 17th August-16th September</p> <p>006 <input type="checkbox"/> 17th September-16th October</p> <p>007 <input type="checkbox"/> 17th October-15th November</p> <p>008 <input type="checkbox"/> 16th November-15th December</p> <p>009 <input type="checkbox"/> 16th December-13th January</p> <p>010 <input type="checkbox"/> 14th January-11th February</p> <p>011 <input type="checkbox"/> 12th February-13th March</p> <p>012 <input type="checkbox"/> 14th March-13th April</p> <p>888 <input type="checkbox"/> Don't Know</p>
<p>J16.Is the %rostertitle% fixed in one place or moveable?</p>	<p>SINGLE-SELECT</p> <p>J16</p> <p>01 <input type="radio"/> Fixed</p> <p>02 <input type="radio"/> Moveable</p>
<p>J17.In the last 12 months, where did you normally cook with %rostertitle%?</p>	<p>SINGLE-SELECT</p> <p>J17</p> <p>001 <input type="radio"/> In dwelling, NOT in sleeping area</p> <p>002 <input type="radio"/> In dwelling, in a sleeping area</p> <p>003 <input type="radio"/> In a separate dwelling</p> <p>004 <input type="radio"/> In a veranda (roofed platform with at least two open sides)</p> <p>005 <input type="radio"/> Outdoors</p> <p>555 <input type="radio"/> Other, specify</p>
<p>J17. Specify Others</p> <p>E J17 == 555</p>	<p>TEXT</p> <p>J17_SO</p> <p>.....</p>
<p>J17A.Do you use a grate with %rostertitle%?</p> <p>E J3.ContainsAny(2,3) &amp;&amp; J17.InList(1,2,3,555)</p>	<p>SINGLE-SELECT</p> <p>J17A</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>J17B.Does %rostertitle% have a working fan attached to it?</p> <p>E J3.ContainsAny(2,3) &amp;&amp; J17.InList(1,2,3,555)</p>	<p>SINGLE-SELECT</p> <p>J17B</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>J18.Do you use a chimney, hood, other exhaust system while using %rostertitle%?</p> <p>E J17.InList(1,2,3,555)</p>	<p>SINGLE-SELECT</p> <p>J18</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>J19. Do you regularly clean a chimney, hood or</p>	<p>SINGLE-SELECT</p> <p>J19</p>

<p>other exhaust system?</p> <p>E J17.InList(1,2,3,555) &amp;&amp; J18 == 1</p>	<p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>J20.A. In the last 12 months, what are the fuels you used on %rostertitle%?</p> <p>V1 self != 16</p> <p>M1 Please select one option.</p>	<p>SINGLE-SELECT <span style="float: right;">J20_A</span></p> <p>001 <input type="radio"/> LPG/cooking gas</p> <p>002 <input type="radio"/> Wood</p> <p>004 <input type="radio"/> Charcoal</p> <p>005 <input type="radio"/> Solar</p> <p>006 <input type="radio"/> Kerosene</p> <p>007 <input type="radio"/> Animal Waste/Dung</p> <p>008 <input type="radio"/> Crop Residue/Plant Biomass</p> <p>009 <input type="radio"/> Saw Dust</p> <p>010 <input type="radio"/> Coal Briquette</p> <p>011 <input type="radio"/> Biomass Briquette</p> <p>012 <input type="radio"/> Electric</p> <p>013 <input type="radio"/> Processed biomass (pellets)/ woodchips</p> <p>014 <input type="radio"/> Biogas</p> <p>015 <input type="radio"/> Garbage</p> <p>016 <input type="radio"/> Not applicable</p> <p>555 <input type="radio"/> Other, specify</p>
<p>J20. Specify Others</p> <p>E J20_A == 555</p>	<p>TEXT <span style="float: right;">J20A_SO</span></p> <p>.....</p>
<p>J20.B. In the last 12 months, what are the fuels you used on %rostertitle%?:Second Most Used</p> <p>E I2.Length &gt; 1</p> <p>V1 self != J20_A</p> <p>M1 Error ! Please select different options.</p>	<p>SINGLE-SELECT <span style="float: right;">J20_B</span></p> <p>001 <input type="radio"/> LPG/cooking gas</p> <p>002 <input type="radio"/> Wood</p> <p>004 <input type="radio"/> Charcoal</p> <p>005 <input type="radio"/> Solar</p> <p>006 <input type="radio"/> Kerosene</p> <p>007 <input type="radio"/> Animal Waste/Dung</p> <p>008 <input type="radio"/> Crop Residue/Plant Biomass</p> <p>009 <input type="radio"/> Saw Dust</p> <p>010 <input type="radio"/> Coal Briquette</p> <p>011 <input type="radio"/> Biomass Briquette</p> <p>012 <input type="radio"/> Electric</p> <p>013 <input type="radio"/> Processed biomass (pellets)/ woodchips</p> <p>014 <input type="radio"/> Biogas</p> <p>015 <input type="radio"/> Garbage</p> <p>016 <input type="radio"/> Not applicable</p> <p>555 <input type="radio"/> Other, specify</p>
<p>J20. Specify Others</p> <p>E J20_B == 555</p>	<p>TEXT <span style="float: right;">J20B_SO</span></p> <p>.....</p>
<p>J21.In the last 12 months, how often was the %J20_A% available?</p> <p>I Read aloud options</p> <p>E J20_A != 16</p>	<p>SINGLE-SELECT <span style="float: right;">J21_A</span></p> <p>01 <input type="radio"/> Always available</p> <p>02 <input type="radio"/> Mostly available</p> <p>03 <input type="radio"/> Sometimes available</p> <p>04 <input type="radio"/> Rarely available</p>
<p>J21.In the last 12 months, how often was the %J20_B% available?</p>	<p>SINGLE-SELECT <span style="float: right;">J21_B</span></p> <p>01 <input type="radio"/> Always available</p>

I Read aloud options  
E J20\_B != 16 && I2.Length > 1

- 02  Mostly available
- 03  Sometimes available
- 04  Rarely available

J22. How much time do household members spend preparing the %rostertitle% and fuel for each meal on average [including setting up the fuel and turning on the stove but not including gathering fuel or cooking time]?

NUMERIC: INTEGER J22

-----

I Minutes, per Meal  
V1 self < 500  
M1 Value too large. Please check.

J23. In the last 7 days, how many days did you use %rostertitle%?

NUMERIC: INTEGER J23

-----

V1 self < 8  
M1 Please enter less than 8.

J24. In the last 7 days, on average, how many times did you light %rostertitle% per day?

NUMERIC: INTEGER J24

-----

J25. In the last 7 days, on average, how much time did your household use %rostertitle% per day to cook or reheat meals (do not include boiling water) in the Morning?

NUMERIC: INTEGER J25

-----

I Minutes  
V1 self < 361  
M1 It took too long. Please check.

J26. In the last 7 days, on average, how much time did your household use %rostertitle% per day to cook or reheat meals (do not include boiling water) in the Afternoon

NUMERIC: INTEGER J26

-----

I Minutes  
V1 self < 361  
M1 It took too long. Please check.

J27. In the last 7 days, on average, how much time did your household use %rostertitle% per day to cook or reheat meals (do not include boiling water) in the Evening?

NUMERIC: INTEGER J27

-----

I Minutes  
V1 self < 361  
M1 It took too long. Please check.

J28. In the last 7 days, on average, how much time did your household use %rostertitle% per day to boil water (for cooking, washing, and drinking and bathing)?

NUMERIC: INTEGER J28

-----

I Minutes  
V1 self < 1441  
M1 Value too large. Please check.

J29. In the last 7 days, on average, how much time did your household use this cookstove per day to cooking cattle fodder?

NUMERIC: INTEGER J29

-----

I Minutes  
V1 self < 1441  
M1 Value too large. Please check.

SINGLE-SELECT J30

<p>J30.Do you also use %rostertitle% for space heating?</p>	<p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>J31.In the last 12 months, during which of the following months did you use %rostertitle% for heating?</p> <p>E J30 == 1 V1 (self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12) &amp;&amp; !self.Contains(111))    (!self.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12) &amp;&amp; self.Contains(111)) M1 Error ! If response is used all year, don't select other options.</p>	<p>MULTI-SELECT <span style="float:right">J31</span></p> <p>111 <input type="checkbox"/> Used all year 001 <input type="checkbox"/> 13th April-13th May 002 <input type="checkbox"/> 14th May-14th June 003 <input type="checkbox"/> 15th June-15th July 004 <input type="checkbox"/> 16th July-16th August 005 <input type="checkbox"/> 17th August-16th September 006 <input type="checkbox"/> 17th September-16th October 007 <input type="checkbox"/> 17th October-15th November 008 <input type="checkbox"/> 16th November-15th December 009 <input type="checkbox"/> 16th December-13th January 010 <input type="checkbox"/> 14th January-11th February 011 <input type="checkbox"/> 12th February-13th March 012 <input type="checkbox"/> 14th March-13th April</p>
<p>J32.In a typical month, how many hours do you use %rostertitle% for heating each day?</p> <p>I NUMBER OF HOURS E J30 == 1 V1 self &lt; 25 M1 Please enter less than 25.</p>	<p>NUMERIC: INTEGER <span style="float:right">J32</span></p> <p>-----</p>
<p>J33.In the last 12 months, what type of harm/injury did your household face from %rostertitle%?</p>	<p>MULTI-SELECT <span style="float:right">J33</span></p> <p>09 <input type="checkbox"/> None 01 <input type="checkbox"/> Death or permanent damage 02 <input type="checkbox"/> Burns/fire 03 <input type="checkbox"/> Severe cough/respiratory problem 04 <input type="checkbox"/> Other major injury 05 <input type="checkbox"/> Minor injury 06 <input type="checkbox"/> Fire with no injury 07 <input type="checkbox"/> Itchy/watery eyes 08 <input type="checkbox"/> Light cough 10 <input type="checkbox"/> Poisoning</p>
<p>J33A.What are the reasons for this injury?</p> <p>E J33.ContainsAny(1,2,3,4,5,6,7,8,10)</p>	<p>SINGLE-SELECT <span style="float:right">J33A</span></p> <p>001 <input type="radio"/> Carelessness or human error 002 <input type="radio"/> Problem with the stove or malfunction 003 <input type="radio"/> Problem with fuel 555 <input type="radio"/> Other, specify</p>
<p>J33A. Specify Others</p> <p>E J33A == 555</p>	<p>TEXT <span style="float:right">J33A_SO</span></p> <p>-----</p>
<p>J34.Is this %rostertitle% is your main cookstove?</p>	<p>SINGLE-SELECT <span style="float:right">J34</span></p> <p>01 <input type="radio"/> Yes 02 <input type="radio"/> No</p>
<p>J35.Why do you not use %rostertitle% most of the time?</p> <p>E J34 == 2</p>	<p>MULTI-SELECT <span style="float:right">J35</span></p> <p>001 <input type="checkbox"/> Electricity/fuel for this stove unavailable</p>

- 002  Electricity/fuel for this stove too expensive
- 003  Certain type of cooking is not possible with this stove
- 004  Cookstove does not have enough burners
- 005  Cookstove flame is too weak
- 006  Stove takes a long time to cook food
- 007  Electricity/fuel takes a long time to prepare
- 008  Stove is difficult/inconvenient to use
- 009  I prefer another energy source but the electricity/fuel is too expensive or often not available
- 010  Certain type of meals taste better with another stove
- 555  Other, specify

J35. Specify Others

TEXT

J35\_SO

E J35.Contains(555)

STATIC TEXT

E J34 == 1

Ask each question for the most used and second most used fuel for this cookstove as identified in J.20 If no second fuel, only ask about the most used fuel. Skip for Electric stove.

J37\_A. How much do you spend on the %J20\_A% for %rostertitle% in the last month/in a typical month when you use the stove?-MOST USED

NUMERIC: INTEGER

J37\_A

-----

I ENTER THE ACTUAL AMOUNT SPENT, NOT THE MARKET VALUE OF THE FUEL.

E J34 == 1 && J20\_A != 16

J37\_B. How much do you spend on the %J20\_B% for %rostertitle% in the last month/in a typical month when you use the stove?-B. Second most used

NUMERIC: INTEGER

J37\_B

-----

I ENTER THE ACTUAL AMOUNT SPENT, NOT THE MARKET VALUE OF THE FUEL.

E J34 == 1 && I2.Length > 1 && J20\_B != 16

V1 self != J37\_A

M1 The two amount cannot be same.

J. USE OF COOKING SOLUTIONS  
COOKING AREA

STATIC TEXT

*ENUMERATOR: FOR HOUSEHOLDS USING ANY SOLID FUEL, ESTIMATE THE SIZE OF THE COOKING SPACE BY FILLING THE FOLLOWING FIELDS.*

J38.Enumerator: based on responses to I.16 and I.17 does the HH use any solid fuels indoors?

SINGLE-SELECT

J38

001  Yes

002  No

888  Don't Know

E I2.ContainsAny(2,3,4,8,9,10,11,12,14)

J39.Record the rough shape of the cooking space

SINGLE-SELECT

J39

01  Roughly square

02  Roughly rectangular

E J38 == 1

	03 <input type="radio"/> Roughly Circular 04 <input type="radio"/> None of the above
J40. Record the dimensions of the cooking space in heel-to-toe paces. Square, record one side Rectangle, record both sides Circle, record diameter  I Feet E J39.InList(1,2,3)	NUMERIC: INTEGER J40 -----
J41. Record the dimensions of the cooking space Rectangle, record side 2  I Feet E J39 == 2	NUMERIC: INTEGER J41 -----
J42. Record the type of roof covering the cooking space  E J39.InList(1,2,3)	SINGLE-SELECT J42 01 <input type="radio"/> Flat 02 <input type="radio"/> Roughly Conical 03 <input type="radio"/> Gable (triangular cross-section) 04 <input type="radio"/> None of the above
J43. Estimate the height of the highest point of the ceiling relative to your own height  I Feet E J42.InList(1,2,3)	NUMERIC: INTEGER J43 -----
J44. How many doors and windows (opening to the outside) does the cooking space have?  E J42.InList(1,2,3)	NUMERIC: INTEGER J44 -----

## K. SPACE AND WATER HEATING

K1. Do you heat water for washing (either for washing dishes and clothes or for bathing)?  E K1 == 1	SINGLE-SELECT K1 01 <input type="radio"/> Yes 02 <input type="radio"/> No
K2. What is the main source you use to heat water?  E K1 == 1	SINGLE-SELECT K2 01 <input type="radio"/> Electric heater/boiler 02 <input type="radio"/> Electric kettle/coil 03 <input type="radio"/> Electric stove 04 <input type="radio"/> Gas heater 05 <input type="radio"/> Gas stove 06 <input type="radio"/> Solar thermal system 07 <input type="radio"/> Same solid fuel stove used for cooking 08 <input type="radio"/> Separate solid fuel stove 09 <input type="radio"/> Kerosene stove
K3. What is the MAIN fuel you use in this stove?  F I2.Contains(@optioncode) E K2.InList(8,9)	SINGLE-SELECT K3 001 <input type="radio"/> LPG/cooking gas 002 <input type="radio"/> Wood purchased 003 <input type="radio"/> Wood collected 004 <input type="radio"/> Solar 005 <input type="radio"/> Kerosene

	006 <input type="radio"/> Animal Waste/Dung 007 <input type="radio"/> Crop Residue/Plants (with examples such as dried leaves, twigs, straw etc.) 008 <input type="radio"/> Saw Dust 009 <input type="radio"/> Coal/Charcoal 010 <input type="radio"/> Briquette 011 <input type="radio"/> Electric 012 <input type="radio"/> Biogas 555 <input type="radio"/> Other, specify
K3. Specify Others E K3 == 555	TEXT <span style="float: right;">K3_SO</span> .....
K4.Do you heat your house?	SINGLE-SELECT <span style="float: right;">K4</span> 01 <input type="radio"/> Yes 02 <input type="radio"/> No
K5.What is the main source you use to heat your house? E K4 == 1	SINGLE-SELECT <span style="float: right;">K5</span> 01 <input type="radio"/> Electric heater 02 <input type="radio"/> Gas heater 03 <input type="radio"/> Solar thermal system 04 <input type="radio"/> Same solid fuel stove used for cooking 05 <input type="radio"/> Separate solid fuel stove 06 <input type="radio"/> Kerosene Heater/Spirit heater
K6.What is the MAIN fuel you use in this stove? E K5.InList (5, 6)	SINGLE-SELECT <span style="float: right;">K6</span> 001 <input type="radio"/> LPG/cooking gas 002 <input type="radio"/> Wood purchased 003 <input type="radio"/> Wood collected 004 <input type="radio"/> Solar 005 <input type="radio"/> Kerosene 006 <input type="radio"/> Animal Waste/Dung 007 <input type="radio"/> Crop Residue/Plants (with examples such as dried leaves, twigs, straw etc.) 008 <input type="radio"/> Saw Dust 009 <input type="radio"/> Coal/Charcoal 010 <input type="radio"/> Briquette 011 <input type="radio"/> Electric 012 <input type="radio"/> Biogas 555 <input type="radio"/> Other, specify
K6. Specify Others E K6 == 555	TEXT <span style="float: right;">K6_SO</span> .....

## L. WILLINGNESS TO PAY FOR AN IMPROVED COOKSTOVE

STATIC TEXT

*This module should be asked to only households WITHOUT an improved cookstove (CAPI/enumerator check). The respondent should be the household member who most frequently cooks food for the household, as identified in A.12 OR the household member who decides to purchase the cookstove in I.4. For each household, determine whether the primary fuel is wood (or crop residues), (based on responses in Section H). Then randomly assign one of the following improved cookstoves: Fuelwood users – (1) Aspirational wood ICS available in country (2) Popular affordable wood ICS available in local market. (After a type of improved cookstove is randomly chosen, price of this type of cookstove will be*

assigned based on one of the three percentages of the reference price: 30%, 60% or 100%.)

<p>L1.CAPI/ Enumerator: Recall responses to Section H (HOUSEHOLD FUEL CONSUMPTION) and record the most frequently used fuel. If not sure, ask respondent.</p>	<p>SINGLE-SELECT <span style="float: right;">L1</span></p> <p>01 <input type="radio"/> HH uses more fuelwood or crop residues than charcoal</p> <p>02 <input type="radio"/> HH uses more charcoal than fuelwood or crop residues</p> <p>03 <input type="radio"/> HH does not use any solid biomass (no charcoal, fuelwood or crop residues)</p>
<p>L2.Enumerator: Record Respondent name for this section</p>	<p>SINGLE-SELECT: LINKED <span style="float: right;">L2</span></p>
<p>E L1.InList(1,2)</p>	
<p>STATIC TEXT</p>	
<p>E L1.InList(1,2)</p>	
<p><i>Interview: [INSERT DESCRIPTION OF THE IMPROVED COOKSTOVE] Please, describe and explain the benefit of having ICS and the features of the assigned cookstove. If you could pay a "lump sum" price for this cookstove. This cookstove can reduce the smoke and fuel consumption significantly. Possibly, your cooking time per meal will be shortened since firepower of this cookstove is stronger than the traditional cookstove. As you answer the next few questions, keep in mind the various benefits from this device as well as your household budget.</i></p>	
<p>Random Number L</p>	<p>NUMERIC: INTEGER <span style="float: right;">Random_L</span> SCOPE: IDENTIFYING</p> <p>-----</p>
<p>STATIC TEXT</p>	
<p>E (Eco_Reg.InList(1,2) &amp;&amp; Random_L == 1)</p>	
<p><i>This 3 Pot Hole model with ash tray (without water tank) stove provides households with cooking as well as space heating options. As it has chimney to take smoke out of the kitchen, it can greatly reduce Indoor Air Pollution (IAP). If properly used, the stove also helps to reduce the amount of firewood used in the stove by about 50%. It is made of metal and is durable. The ash tray helps in easy removing of ash. Also, proper use of cookstove will surely reduce your cooking time per meal. This will also help raise room temperature to comfort level. As you answer the next few questions, keep in mind the various benefits from this device as well as your household budget.</i></p>	
<p>Amount</p>	<p>NUMERIC: DECIMAL <span style="float: right;">Prefilled_L1</span> SCOPE: IDENTIFYING</p> <p>-----</p>
<p>STATIC TEXT</p>	
<p>E Eco_Reg == 3    (Eco_Reg.InList(1,2) &amp;&amp; Random_L == 2)</p>	
<p><i>The Mini Moto stove has a single pot-hole/ burner. It can reduce Indoor Air Pollution (IAP) in your kitchen as it emits lesser pollutants compared to traditional cooking stove. If properly used, the stove also helps to reduce the amount of firewood used in the stove by about 50%. This stove performs best with processed fuel or pellets. Also, proper use of cookstove will surely reduce your cooking time per meal. It is easier to start a fire (because of a small combustion chamber) with this stove and the stove is suitable for light and moderate cooking needs. This stove can be easily carried from one place to another, as it is portable. The stove is manufactured in a factory and the supplier may provide you after sales service. As you answer the next few questions, keep in mind the various benefits from this device as well as your household budget.</i></p>	
<p>Amount</p>	<p>NUMERIC: DECIMAL <span style="float: right;">Prefilled_L2</span> SCOPE: IDENTIFYING</p> <p>-----</p>
<p>STATIC TEXT</p>	
<p>E (Eco_Reg.InList(1,2))</p>	
<p><a href="#">%Prefilled_L1%</a></p>	
<p>STATIC TEXT</p>	
<p>E Eco_Reg == 3</p>	
<p><a href="#">%Prefilled_L2%</a></p>	



<p>Enter the amount for cookstove displayed above.</p> <p>E L1.InList(1,2)</p> <p>V1 self == Prefilled_L1    self == Prefilled_L2</p> <p>M1 Error! Please enter the amount displayed above.</p>	<p>NUMERIC: INTEGER <span style="float: right;">CF_Stove</span></p> <p>-----</p>
<p>L3.Would you be willing to purchase this cookstove at %CF_Stove%?</p> <p>E L1.InList(1,2)</p>	<p>SINGLE-SELECT <span style="float: right;">L3</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>L4.Would you be willing to pay %CF_Stove% for this stove, if you were given 6 months to make the payment?</p> <p>E L1.InList(1,2) &amp;&amp; L3 == 2</p>	<p>SINGLE-SELECT <span style="float: right;">L4</span></p> <p>001 <input type="radio"/> Yes</p> <p>002 <input type="radio"/> No</p> <p>888 <input type="radio"/> Don't Know</p>
<p>L5.Would you be willing to pay %CF_Stove% for this solar device, if you were given 12 months to make the payment?</p> <p>E L4.InList(2,888) &amp;&amp; L3 == 2</p>	<p>SINGLE-SELECT <span style="float: right;">L5</span></p> <p>001 <input type="radio"/> Yes</p> <p>002 <input type="radio"/> No</p> <p>888 <input type="radio"/> Don't Know</p>
<p>L6. Would you be willing to pay %CF_Stove% for this stove, if you were given 24 months to make the payment?</p> <p>E L5.InList(2,888) &amp;&amp; L3 == 2</p>	<p>SINGLE-SELECT <span style="float: right;">L6</span></p> <p>001 <input type="radio"/> Yes</p> <p>002 <input type="radio"/> No</p> <p>888 <input type="radio"/> Don't Know</p>
<p>L7.Why would you not accept the offer?</p> <p>E L6.InList(2,888)</p>	<p>SINGLE-SELECT <span style="float: right;">L7</span></p> <p>001 <input type="radio"/> Cannot afford the payment</p> <p>002 <input type="radio"/> Do not need an improved cookstove</p> <p>003 <input type="radio"/> Fuel for this stove is unreliable</p> <p>004 <input type="radio"/> Do not have sufficient information about this stove</p> <p>555 <input type="radio"/> Other, specify</p>
<p>L7. Specify Others</p> <p>E L7 == 555</p>	<p>TEXT <span style="float: right;">L7_SO</span></p> <p>-----</p>
<p>L8. What is the most important attribute for you in a cook stove?</p> <p>E L6.InList(2,888)</p>	<p>SINGLE-SELECT <span style="float: right;">L8</span></p> <p>01 <input type="radio"/> Cleanliness (less emission)</p> <p>02 <input type="radio"/> Speed of cooking (time saving)</p> <p>03 <input type="radio"/> Fuel saving</p> <p>04 <input type="radio"/> Cost of stove</p> <p>05 <input type="radio"/> Aesthetic value</p> <p>06 <input type="radio"/> Ease of use</p> <p>07 <input type="radio"/> Durability</p> <p>08 <input type="radio"/> Multiple pot option</p> <p>09 <input type="radio"/> Ability to control fire power</p> <p>10 <input type="radio"/> Portability</p> <p>11 <input type="radio"/> Additional functions (mobile charging, lighting)</p> <p>12 <input type="radio"/> Space heating (for high hills and mountains)</p>

## N. HOUSEHOLD ASSETS: TRANSPORTATION AND AGRICULTURAL EQUIPMENT OWNERSHIP AND TOTAL

*Interviewer Instructions: The Respondent should be the head of household.*

SELECT ITEMS	<p>MULTI-SELECT: YES/NO <span style="float: right;">N LIST1</span></p> <p>01 <input type="checkbox"/> / <input type="checkbox"/> Vehicle (Car, pickup truck, etc)</p> <p>02 <input type="checkbox"/> / <input type="checkbox"/> Motorcycle</p> <p>03 <input type="checkbox"/> / <input type="checkbox"/> Bicycle</p> <p>05 <input type="checkbox"/> / <input type="checkbox"/> Boat</p> <p>06 <input type="checkbox"/> / <input type="checkbox"/> Tractor</p> <p>07 <input type="checkbox"/> / <input type="checkbox"/> Domestic water pump</p> <p>08 <input type="checkbox"/> / <input type="checkbox"/> Cow/bull/calves</p> <p>09 <input type="checkbox"/> / <input type="checkbox"/> Water buffalo</p> <p>10 <input type="checkbox"/> / <input type="checkbox"/> Horse/donkey</p> <p>11 <input type="checkbox"/> / <input type="checkbox"/> Sheep</p> <p>12 <input type="checkbox"/> / <input type="checkbox"/> Goat</p> <p>13 <input type="checkbox"/> / <input type="checkbox"/> Pig</p> <p>14 <input type="checkbox"/> / <input type="checkbox"/> Rabbit</p> <p>15 <input type="checkbox"/> / <input type="checkbox"/> Fish (Aquaculture)</p> <p>17 <input type="checkbox"/> / <input type="checkbox"/> Chicken</p> <p>18 <input type="checkbox"/> / <input type="checkbox"/> Duck</p> <p><a href="#">And 1 other symbols [3]</a></p>
Specify Others	<p>TEXT <span style="float: right;">N LIST1 SO</span></p> <p>.....</p>

E N\_LIST1.Yes.Contains (16)

N. HOUSEHOLD ASSETS: TRANSPORTATION AND AGRICULTURAL EQUIPMENT OWNERSHIP AND TOTAL

Roster: ROSTER-(N1-N16B)

generated by multi-select question N LIST1

R\_NLIST1

(N1-N16B) How many Vehicle %rostertitle% in (working condition or still healthy) does your household own?	<p>NUMERIC: DECIMAL <span style="float: right;">N1 A</span></p> <p>-----</p>
SELECT ITEMS	<p>MULTI-SELECT: YES/NO <span style="float: right;">N LIST2</span></p> <p>01 <input type="checkbox"/> / <input type="checkbox"/> Incandescent Light Bulb</p> <p>02 <input type="checkbox"/> / <input type="checkbox"/> Fluorescent Tube</p> <p>03 <input type="checkbox"/> / <input type="checkbox"/> Compact Fluorescent Light (CFL) Bulb</p> <p>04 <input type="checkbox"/> / <input type="checkbox"/> LED Light Bulb</p> <p>05 <input type="checkbox"/> / <input type="checkbox"/> Radio/CD Players/sound system</p> <p>06 <input type="checkbox"/> / <input type="checkbox"/> VCD/DVD</p> <p>07 <input type="checkbox"/> / <input type="checkbox"/> Fan</p> <p>08 <input type="checkbox"/> / <input type="checkbox"/> Refrigerator</p> <p>09 <input type="checkbox"/> / <input type="checkbox"/> Hair dryer</p> <p>10 <input type="checkbox"/> / <input type="checkbox"/> Electric food processor/blende</p> <p>11 <input type="checkbox"/> / <input type="checkbox"/> Electric rice cooker</p> <p>12 <input type="checkbox"/> / <input type="checkbox"/> Microwave oven</p> <p>13 <input type="checkbox"/> / <input type="checkbox"/> Electric Iron</p> <p>14 <input type="checkbox"/> / <input type="checkbox"/> Washing machine</p> <p>15 <input type="checkbox"/> / <input type="checkbox"/> Electric sewing machine</p> <p>16 <input type="checkbox"/> / <input type="checkbox"/> Air cooler</p> <p><a href="#">And 13 other symbols [4]</a></p>
Specify Others	<p>TEXT <span style="float: right;">N LIST2 SO</span></p>

Specify Others

TEXT

N LIST2 SO

## N. HOUSEHOLD ASSETS: TRANSPORTATION AND AGRICULTURAL EQUIPMENT OWNERSHIP AND TOTAL

## Roster: ROSTER-(N17-N45)

generated by multi-select question N LIST2

R\_LIST2

(N17-N45). a. How many %rostertitle% in working condition does your household own?

NUMERIC: DECIMAL

N17\_45\_A

(N17-N45).b.How many hours does your household use %rostertitle% in a typical day? (Only for lights, fan, radio and TV)

NUMERIC: DECIMAL

N17\_45

E ((long?)@rowcode) .InList (5,7,25,26,27)

## P. HOUSEHOLD ECONOMIC SHOCKS

STATIC TEXT

*Only record information for events that negatively affected the economic situation of the household.*

## P. HOUSEHOLD ECONOMIC SHOCKS

A) INCOME LOSS FROM SELF-EMPLOYMENT (E.G. CROP DISEASE, LIVESTOCK DEATH, LOSS OF SALES, DEATH OF MAIN INCOME EARNER ETC.)

P1.In the last 12 months, have you been affected by (...)?

SINGLE-SELECT

P1\_A

01  Yes02  No

P2.Who was affected by the event?

SINGLE-SELECT

P2\_A

01  Just this household02  Family members outside HH03  Several HHs in this village04  Most or all HHs in this village05  Several villages in this area

E P1\_A == 1

## P. HOUSEHOLD ECONOMIC SHOCKS

A) INCOME LOSS IN WAGE OR SALARY EMPLOYMENT (E.G. SALARY CUT, JOB LOSS, DEATH OF MAIN INCOME EARNER ETC.)

P1.In the last 12 months, have you been affected by (...)?

SINGLE-SELECT

P1\_B

01  Yes02  No

P2.Who was affected by the event?

SINGLE-SELECT

P2\_B

01  Just this household02  Family members outside HH03  Several HHs in this village04  Most or all HHs in this village05  Several villages in this area

E P1\_B == 1

## Q. STREET LIGHTING

STATIC TEXT

*The respondent should be the most knowledgeable household member on household electricity, as identified in C.1*

Q1.Respondent name	SINGLE-SELECT: LINKED	Q1
Q2.Does your neighborhood have any form of street lighting? I "Neighborhood" means 0.5 KM from Household	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	Q2
Q3.How satisfied are you by the brightness of the street lighting service in your neighborhood? E Q2 == 1	SINGLE-SELECT 01 <input type="radio"/> Very unsatisfied 02 <input type="radio"/> Somewhat unsatisfied 03 <input type="radio"/> Somewhat satisfied 04 <input type="radio"/> Very satisfied	Q3
Q4.What do you think are the risks/problems with street lighting in your neighborhood? E Q2 == 1	MULTI-SELECT 001 <input type="checkbox"/> Electrocutation 002 <input type="checkbox"/> Poor installation 003 <input type="checkbox"/> Poor maintenance 004 <input type="checkbox"/> Outages/blackouts of street lighting 005 <input type="checkbox"/> Does not stay on all night 111 <input type="checkbox"/> No risks/problems 555 <input type="checkbox"/> Other specify	Q4
Q4. Specify, others E Q4.Contains (555)	TEXT .....	Q4_SO
Q5.Do you have a light that you could turn on at night to provide light outside your home? I Instruction	SINGLE-SELECT 01 <input type="radio"/> Yes 02 <input type="radio"/> No	Q5
Q6.How many hours do you turn it on each night after it becomes dark? E Q5 == 1 V1 self <= 13 M1 Error. Please enter less than or equal to 13.	NUMERIC: INTEGER -----	Q6

## R.TIME USE

Please select the household member group". E HH_ROSTER.Any(x=>x.A3==2 && x.A5>=15)    HH_ROSTER.Any(x=>x.A3==2 && x.A5<=15)    HH_ROSTER.Any(x=>x.A3==1 && x.A5>=15)    HH_ROSTER.Any(x=>x.A3==1 && x.A5<=15) V1 (self.Contains(1) && HH_ROSTER.Any(x=>x.A3==2 && x.A5>=15) )    (self.Contains(2) && HH_ROSTER.Any(x=>x.A3==2 && x.A5<=15) )    (self.Contains(3) && HH_ROSTER.Any(x=>x.A3==1 && x.A5>=15) )    (self.Co <a href="#">And 52 other symbols [1]</a> M1 Error ! Please select member group by taking reference with household roster.	MULTI-SELECT MULTI_TIME_USE 01 <input type="checkbox"/> Women (Age 15 yrs and older) 02 <input type="checkbox"/> Girls(Under age 15 yrs) 03 <input type="checkbox"/> Men(Age 15 yrs and older) 04 <input type="checkbox"/> Boys(Under age 15 yrs)
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R.TIME USE

Roster: TIME USE

generated by multi-select question [MULTI TIME USE](#)

ROSTER\_TIME\_USE

<p>R1.A. In a typical day, does anyone from your household spend time spend gathering, collecting or purchasing fuels including travel time?</p>	<p>SINGLE-SELECT <span style="float: right;">R1_A</span>  01 <input type="radio"/> Yes  02 <input type="radio"/> No</p>
<p>R2.A. In a typical day, how many total minutes did %rostertitle% spend gathering, collecting or purchasing fuels including travel time?</p> <p>I minutes  E R1_A == 1</p>	<p>NUMERIC: INTEGER <span style="float: right;">R2_A</span>  -----</p>
<p>R3.A.How often does your household collect or purchase fuel?</p> <p>E R1_A == 1</p>	<p>SINGLE-SELECT <span style="float: right;">R3_A</span>  001 <input type="radio"/> Daily  002 <input type="radio"/> Weekly  003 <input type="radio"/> Bi-Weekly  004 <input type="radio"/> Monthly  555 <input type="radio"/> Other, specify</p>
<p>R3.A Specify Others</p> <p>E R3_A == 555</p>	<p>TEXT <span style="float: right;">R3_A_SO</span>  -----</p>
<p>R4.A.How many times do the household members go to collect/purchase fuels %R3_A%?</p> <p>I Number of times  E R1_A == 1</p>	<p>NUMERIC: INTEGER <span style="float: right;">R4_A</span>  -----</p>
<p>R9.A.In a typical day, does anyone from your household spend time preparing fuel/energy source (chopping, making pellets)?</p>	<p>SINGLE-SELECT <span style="float: right;">R9_A</span>  01 <input type="radio"/> Yes  02 <input type="radio"/> No</p>
<p>R10.A.In a typical day, how many total minutes did %rostertitle% spend preparing fuel/energy source (chopping, making pellets)?</p> <p>I minutes  E R9_A == 1</p>	<p>NUMERIC: INTEGER <span style="float: right;">R10_A</span>  -----</p>
<p>R11.A.In a typical day, does anyone from your household spend time cooking (food, tea, boiling water)?</p> <p>E R9_A.InList (1,2)</p>	<p>SINGLE-SELECT <span style="float: right;">R11_A</span>  01 <input type="radio"/> Yes  02 <input type="radio"/> No</p>
<p>R12.A.In a typical day, how many total minutes did %rostertitle% spend cooking (food, tea, boiling water)?</p> <p>I minutes  E R11_A == 1</p>	<p>NUMERIC: INTEGER <span style="float: right;">R12_A</span>  -----</p>
<p>R13.A. In a typical day, does anyone from your household spend other time in cooking area(s)?</p> <p>E R11_A.InList (1,2)</p>	<p>SINGLE-SELECT <span style="float: right;">R13_A</span>  01 <input type="radio"/> Yes  02 <input type="radio"/> No</p>
<p>R14.A.In a typical day, how many total minutes did %rostertitle% spend other time in cooking area(s)?</p> <p>I Minutes  E R13_A == 1</p>	<p>NUMERIC: INTEGER <span style="float: right;">R14_A</span>  -----</p>

<p>R15.A. In a typical day, does anyone from your household spend time using space heaters (including time starting heater and spending time near it for warmth)?</p> <p>E R13_A.InList(1,2)</p>	<p>SINGLE-SELECT <span style="float: right;">R15_A</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>R16.A. In a typical day, how many total minutes did %rostertitle% spend using space heaters (including time starting heater and spending time near it for warmth)?</p> <p>I Minutes</p> <p>E R15_A == 1</p>	<p>NUMERIC: INTEGER <span style="float: right;">R16_A</span></p> <p>-----</p>
<p>R17.A. In a typical day, does anyone from your household spend time using stove or space heaters for other purposes (ex: brewing beer, preparing fodder for animals)?</p> <p>E R15_A.InList(1,2)</p>	<p>SINGLE-SELECT <span style="float: right;">R17_A</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>R18.A. In a typical day, how many total minutes did %rostertitle% spend using stove or space heaters for other purposes (ex: brewing beer, preparing fodder for animals)?</p> <p>I Minutes</p> <p>E R17_A == 1</p>	<p>NUMERIC: INTEGER <span style="float: right;">R18_A</span></p> <p>-----</p>
<p>R19.A. In a typical day, does anyone from your household spend time caring, attending, or playing with/for younger children?</p> <p>E R17_A.InList(1,2)</p>	<p>SINGLE-SELECT <span style="float: right;">R19_A</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>R20.A. In a typical day, how many total minutes did %rostertitle% spend caring, attending, or playing with/for younger children?</p> <p>I Minutes</p> <p>E R19_A == 1</p>	<p>NUMERIC: INTEGER <span style="float: right;">R20_A</span></p> <p>-----</p>
<p>R21.A. In a typical day, does anyone from your household spend time studying or helping with school work?</p> <p>E R19_A.InList(1,2)</p>	<p>SINGLE-SELECT <span style="float: right;">R21_A</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>R22.A. In a typical day, how many total minutes did %rostertitle% spend studying or helping with school work?</p> <p>I Minutes</p> <p>E R21_A == 1</p>	<p>NUMERIC: INTEGER <span style="float: right;">R22_A</span></p> <p>-----</p>
<p>R23.A. In a typical day, does anyone from your household spend time working for pay outside of the house (employed and self-employed)?</p> <p>E R21_A.InList(1,2)</p>	<p>SINGLE-SELECT <span style="float: right;">R23_A</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>R24.A. In a typical day, how many total minutes did %rostertitle% spend working for pay outside of the house (employed and self-employed)?</p> <p>I Minutes</p> <p>E R23_A == 1</p>	<p>NUMERIC: INTEGER <span style="float: right;">R24_A</span></p> <p>-----</p>

<p>R25.A. In a typical day, does anyone from your household spend time on income generating activities inside the house?</p> <p>E R23_A.InList(1,2)</p>	<p>SINGLE-SELECT <span style="float: right;">R25_A</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>R26.A. In a typical day, how many total minutes did %rosteritle% spend on income generating activities inside the house?</p> <p>I Minutes</p> <p>E R25_A == 1</p>	<p>NUMERIC: INTEGER <span style="float: right;">R26_A</span></p> <p>-----</p>
<p>R27.A. In a typical day, does anyone from your household spend time on entertainment and socializing?</p> <p>E R25_A.InList(1,2)</p>	<p>SINGLE-SELECT <span style="float: right;">R27_A</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>R28.A. In a typical day, how many total minutes did %rosteritle% spend spent on entertainment and socializing?</p> <p>I Minutes</p> <p>E R27_A == 1</p>	<p>NUMERIC: INTEGER <span style="float: right;">R28_A</span></p> <p>-----</p>

## S. HEALTH IMPACTS

<p>Please select the household member group".</p> <p>E HH_ROSTER.Any(x=&gt;x.A3==2 &amp;&amp; x.A5&gt;=15)    HH_ROSTER.Any(x=&gt;x.A3==2 &amp;&amp; x.A5&lt;=15)    HH_ROSTER.Any(x=&gt;x.A3==1 &amp;&amp; x.A5&gt;=15)    HH_ROSTER.Any(x=&gt;x.A3==1 &amp;&amp; x.A5&lt;=15)    HH_ROSTER.Any(x=&gt;x.A5&lt;= 4)</p> <p>V1 (self.Contains(1) &amp;&amp; HH_ROSTER.Any(x=&gt;x.A3==2 &amp;&amp; x.A5&gt;=15) )    (self.Contains(2) &amp;&amp; HH_ROSTER.Any(x=&gt;x.A3==2 &amp;&amp; x.A5&lt;=15) )    (self.Contains(3) &amp;&amp; HH_ROSTER.Any(x=&gt;x.A3==1 &amp;&amp; x.A5&gt;=15) )    (self.Co <a href="#">And 105 other symbols [2]</a>)</p> <p>M1 Error ! Please select member group by taking reference with household roster.</p>	<p>MULTI-SELECT <span style="float: right;">MULTI HEALTH IMPACTS</span></p> <p>01 <input type="checkbox"/> Women (Age 15 yrs and older)</p> <p>02 <input type="checkbox"/> Girls(Under age 15 yrs)</p> <p>03 <input type="checkbox"/> Men(Age 15 yrs and older)</p> <p>04 <input type="checkbox"/> Boys(Under age 15 yrs)</p> <p>05 <input type="checkbox"/> Young Children (0-4 years)</p>
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### S. HEALTH IMPACTS

#### Roster: HEALTH IMPACTS

generated by multi-select question [MULTI HEALTH IMPACTS](#)

ROSTER\_S\_HEALTH\_IMPACTS

<p>S1.A. Has anyone from your household had an illness with a cough at any time in the last 14 days?</p>	<p>SINGLE-SELECT <span style="float: right;">S1_A</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>S2.A. Number of %rosteritle% with an illness with a cough at any time in the last 14 days?</p> <p>E S1_A == 1</p>	<p>NUMERIC: INTEGER <span style="float: right;">S2_A</span></p> <p>-----</p>
<p>S3.A. Of %rosteritle% who had an illness with a cough, how many went to see a doctor/clinic?</p> <p>E S2_A &gt; 0</p> <p>V1 self &lt;= S2_A</p> <p>M1 Please enter less than or equal to %S2_A%.</p>	<p>NUMERIC: INTEGER <span style="float: right;">S3_A</span></p> <p>-----</p>
<p>S4.A. Of the %rosteritle% who had an illness with a cough, how many breathed faster than usual with short, rapid breaths or had difficulty</p>	<p>NUMERIC: INTEGER <span style="float: right;">S4_A</span></p> <p>-----</p>

<p>breathing?</p> <p>E S2_A &gt; 0 V1 self &lt;= S2_A M1 Please enter less than or equal to %S2_A%.</p>	
<p>S5.A. Please select the following for %rostertitle% suffering from short, rapid breaths or difficult breathing, experienced a problem in the chest or a blocked or runny nose?</p> <p>E S4_A &gt; 0</p>	<p>MULTI-SELECT <span style="float: right;">S5_A</span></p> <p>01 <input type="checkbox"/> Chest only</p> <p>02 <input type="checkbox"/> Nose</p> <p>03 <input type="checkbox"/> Both</p> <p>04 <input type="checkbox"/> Other</p> <p>05 <input type="checkbox"/> Don't know</p>
<p>S5.A. Please enter the number of people who are suffering form rapid breathe or difficult breathing and problem in chest?</p> <p>E S5_A.Contains (1)</p>	<p>NUMERIC: INTEGER <span style="float: right;">S5_A CHEST</span></p> <p>-----</p>
<p>S5.A. Please enter the number of people who are suffering form rapid breathe or difficult breathing and problem in nose?</p> <p>E S5_A.Contains (2)</p>	<p>NUMERIC: INTEGER <span style="float: right;">S5_A NOSE</span></p> <p>-----</p>
<p>S5.A. Please enter the number of people who are suffering form rapid breathe or difficult breathing and problem in both nose and chest?</p> <p>E S5_A.Contains (3)</p>	<p>NUMERIC: INTEGER <span style="float: right;">S5_A BOTH</span></p> <p>-----</p>
<p>S5.A. Please enter the number of people who are suffering form rapid breathe or difficult breathing and problem in other?</p> <p>E S5_A.Contains (4)</p>	<p>NUMERIC: INTEGER <span style="float: right;">S5_A OTHER</span></p> <p>-----</p>
<p>S6.A. Has anyone from your household had an eye irritation or eye problems in the last 14 days?</p> <p>E S4_A &gt; 0    S1_A == 2</p>	<p>SINGLE-SELECT <span style="float: right;">S6_A</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>S7.A. Number of %rostertitle% with eye irritation or eye problems in the last 14 days?</p> <p>E S6_A == 1</p>	<p>NUMERIC: INTEGER <span style="float: right;">S7_A</span></p> <p>-----</p>
<p>S8.A. Has anyone from your household had any poisoning from liquid fuel?</p> <p>E S6_A.InList (1,2)</p>	<p>SINGLE-SELECT <span style="float: right;">S8_A</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>S9.A. In the last 12 months, how many %rostertitle% have experienced poisoning from liquid fuel?</p> <p>E S8_A == 1</p>	<p>NUMERIC: INTEGER <span style="float: right;">S9_A</span></p> <p>-----</p>
<p>S10.A. Has anyone from your household had any burns related to cooking or heating or fuel?</p> <p>E S8_A.InList (1,2)</p>	<p>SINGLE-SELECT <span style="float: right;">S10_A</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>S11.A. In the last 12 months, how many</p>	<p>NUMERIC: INTEGER <span style="float: right;">S11_A</span></p>



<p>%rostertitle% have experienced burns related to cooking or heating or fuel?</p> <p>E S10_A == 1</p>	<p>-----</p>
<p>S12.A.Of the burns related to fuel, in the last 12 months, how many %rostertitle% have experienced burns that required a visit to the clinic/hospital?</p> <p>E S11_A &gt; 0</p>	<p>NUMERIC: INTEGER S12_A</p> <p>-----</p>
<p>S13.A.Has anyone from your household had any back or neck problems from carrying fuel for cooking/heating?</p>	<p>SINGLE-SELECT S13_A</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>S14.A.In the last 12 months, how many %rostertitle% have experienced back or neck problems from carrying fuel for cooking/heating?</p> <p>E S13_A == 1</p>	<p>NUMERIC: INTEGER S14_A</p> <p>-----</p>
<p>S15.A.Has anyone from your household had any electrical injuries (e.g. shocks) that prevent attendance in school/work?</p> <p>E S13_A.InList (1,2)</p>	<p>SINGLE-SELECT S15_A</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> NO</p>
<p>S16.A.In the last 12 months, how many %rostertitle% have experienced electrical injuries (e.g. shocks) that prevent attendance in school/work?</p> <p>E S15_A == 1</p>	<p>NUMERIC: INTEGER S16_A</p> <p>-----</p>
<p>S17.A.Has anyone from your household had any other minor electrical injuries?</p> <p>E S15_A.InList (1,2)</p>	<p>SINGLE-SELECT S17_A</p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>S18.A.In the last 12 months, how many %rostertitle% have experienced other minor electrical injuries?</p> <p>E S17_A == 1</p>	<p>NUMERIC: INTEGER S18_A</p> <p>-----</p>

## T. ATTITUDES

<p>T2.How has the price of electricity changed over the last 12 months?</p> <p>I Read options aloud (Do not read option Don't know aloud, type 888 if relevant.)</p> <p>E C2 == 1</p>	<p>SINGLE-SELECT T2</p> <p>001 <input type="radio"/> It has gotten much higher</p> <p>002 <input type="radio"/> Stayed about the same</p> <p>003 <input type="radio"/> It has gotten cheaper</p> <p>888 <input type="radio"/> Don't know</p>
<p>T3.How has the frequency of black out or brown out changed over the last 12 months?</p> <p>I Read options aloud (Do not read option Don't know aloud, type 888 if relevant.)</p> <p>E C2 == 1</p>	<p>SINGLE-SELECT T3</p> <p>001 <input type="radio"/> It has gotten worse</p> <p>002 <input type="radio"/> Stayed the same</p> <p>003 <input type="radio"/> Better</p> <p>888 <input type="radio"/> Don't know</p>
<p>T4.What are the main reasons you experience</p>	<p>MULTI-SELECT T4</p>

<p>power shortages?</p> <p>E C2 == 1</p>	<p>01 <input type="checkbox"/> Demand for electricity exceeds supply</p> <p>02 <input type="checkbox"/> Damage to critical infrastructure due to conflict / fighting</p> <p>03 <input type="checkbox"/> Lack of investment in the sector (and/or new power generation assets)</p> <p>04 <input type="checkbox"/> Lack of general maintenance of critical infrastructure by the central government</p> <p>05 <input type="checkbox"/> Lack of general maintenance of critical infrastructure by the regional / local government</p> <p>06 <input type="checkbox"/> Electricity theft</p> <p>07 <input type="checkbox"/> Other (please specify)</p>
<p>Specify Others</p> <p>E T4.Contains (7)</p>	<p>TEXT T4_SO</p> <p>.....</p>
<p>T5.How has the duration of electricity supply at night changed over the last 12 months?</p> <p>I Read options aloud (Do not read option Don't know aloud, type 888 if relevant.)</p> <p>E C2 == 1</p>	<p>SINGLE-SELECT T5</p> <p>001 <input type="radio"/> It has gotten worse</p> <p>002 <input type="radio"/> Stayed the same</p> <p>003 <input type="radio"/> Better</p> <p>888 <input type="radio"/> Don't know</p>
<p>T6.Since you first received your electricity connection, how has the duration of electricity supply during the day changed?</p> <p>I Read options aloud (Do not read option Don't know aloud, type 888 if relevant.)</p> <p>E C2 == 1</p>	<p>SINGLE-SELECT T6</p> <p>001 <input type="radio"/> It has gotten worse</p> <p>002 <input type="radio"/> Stayed the same</p> <p>003 <input type="radio"/> Better</p> <p>888 <input type="radio"/> Don't know</p>
<p>T7.If you could use your %C175% to power an appliance that you do not currently own, what would it be?</p> <p>I Instruction</p> <p>E C175 != 111 &amp;&amp; C175 != 4</p>	<p>MULTI-SELECT T7</p> <p>001 <input type="checkbox"/> Fan</p> <p>002 <input type="checkbox"/> Radio</p> <p>003 <input type="checkbox"/> Television</p> <p>004 <input type="checkbox"/> Refrigerator</p> <p>005 <input type="checkbox"/> Electronic Tablet</p> <p>006 <input type="checkbox"/> Computer</p> <p>007 <input type="checkbox"/> Hair clippers</p> <p>008 <input type="checkbox"/> Power Tools</p> <p>009 <input type="checkbox"/> Phone with internet (smartphone)</p> <p>111 <input type="checkbox"/> No additional appliances required</p> <p>555 <input type="checkbox"/> Other, specify</p>
<p>T7. Specify Others</p> <p>E T7.Contains (555)</p>	<p>TEXT T7_SO</p> <p>.....</p>
<p>T8.Why do you not yet own one of these appliances?</p> <p>E !T7.Contains (111)</p>	<p>MULTI-SELECT T8</p> <p>001 <input type="checkbox"/> Too expensive</p> <p>002 <input type="checkbox"/> No products available</p> <p>003 <input type="checkbox"/> Products require too much energy, cannot power them with my system</p> <p>555 <input type="checkbox"/> Other, specify</p>
<p>Specify Others</p>	<p>TEXT T8_SO</p>

T9.How satisfied are you with the service from %C175%?

SINGLE-SELECT

T9

- 01  Very satisfied  
 02  Somewhat satisfied  
 03  Neutral  
 04  Unsatisfied  
 05  Very unsatisfied

## T. ATTITUDES

STATEMENT READ THE FOLLOWING STATEMENT AND ASK RESPONDENT WHETHER HE OR SHE AGREES (YES), DISAGREES (NO), OR HAS NO OPINION.

STATIC TEXT

*Electricity*

T10.It is important for my household to conserve electricity.

SINGLE-SELECT

T10

- 01  Agrees  
 02  Disagrees  
 03  No Opinion

T11.I am concerned with the reliability of public electricity supply (i.e., frequent power shortages)

SINGLE-SELECT

T11

- 01  Agrees  
 02  Disagrees  
 03  No Opinion

T12.I would be willing to pay more for public electricity if supply was more reliable

SINGLE-SELECT

T12

- 01  Agrees  
 02  Disagrees  
 03  No Opinion

T13.Higher public electricity prices would lead to a better service.

SINGLE-SELECT

T13

- 01  Agrees  
 02  Disagrees  
 03  No Opinion

T14.The current price for public electricity is fair.

SINGLE-SELECT

T14

- 01  Agrees  
 02  Disagrees  
 03  No Opinion

T15.The monthly electric bill is or would be a financial burden for my family.

SINGLE-SELECT

T15

- 01  Agrees  
 02  Disagrees  
 03  No Opinion

T16.The electricity makes it easy to have information and the news.

SINGLE-SELECT

T16

- 01  Agrees  
 02  Disagrees  
 03  No Opinion

T17.Watching TV provides my household with great entertainment.

SINGLE-SELECT

T17

- 01  Agrees  
 02  Disagrees  
 03  No Opinion

T18.News and information from radio and television provide good information relevant for conducting business and agricultural activities.	SINGLE-SELECT 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion	T18
T19.News and information from radio and television provide good knowledge on family health issues.	SINGLE-SELECT 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion	T19
T20.Electricity can benefit communities through economic and enterprise development.	SINGLE-SELECT 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion	T20

STATIC TEXT

*Energy Subsidies*

T21.The current public electricity prices reflect the cost of production.	SINGLE-SELECT 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion	T21
T22.The amount I pay to {UTILITY} for electricity covers the real cost of providing me with electricity.	SINGLE-SELECT 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion	T22
T23.If the government used some of the money saved on electricity subsidies to compensate poor households, I would support higher prices.	SINGLE-SELECT 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion	T23
T24.The government of Nepal subsidizes the cost of electricity for all citizens because the cost of production for [UTILTIY] is higher than the prices charged to households.	SINGLE-SELECT 01 <input type="radio"/> Agrees 02 <input type="radio"/> Disagrees 03 <input type="radio"/> No Opinion	T24
T25.Why is energy conservation important to your household? (Up to 3 options)	MULTI-SELECT 001 <input type="checkbox"/> To save money for my family 002 <input type="checkbox"/> To help the planet 003 <input type="checkbox"/> To burn fewer fossil fuels so that our air is cleaner 004 <input type="checkbox"/> Because my neighbors are working hard to conserve energy 005 <input type="checkbox"/> To become a good example for my family members and others 006 <input type="checkbox"/> Using less power has benefits for our society 007 <input type="checkbox"/> If we conserve power we can stop power-outs in rural areas 555 <input type="checkbox"/> Other (specify)	T25
I Upto 3 responses.		
Specify Others	TEXT .....	T25_SO
E T25.Contains (555)		
T26.How should public electricity tariffs be managed?	SINGLE-SELECT	T26

I Read options aloud	001 <input type="radio"/> Tariffs should remain unchanged 002 <input type="radio"/> Tariffs should be increased 003 <input type="radio"/> Tariffs should be decreased 888 <input type="radio"/> Don't know
T27.[Provide information on extent of subsidies.] Do you think that greater awareness of the extent of the cost of energy subsidies will make you more likely to support a reduction of these subsidies?	SINGLE-SELECT <span style="float: right;">T27</span> 001 <input type="radio"/> Yes 002 <input type="radio"/> No 888 <input type="radio"/> Don't know
T28.How would you cope if electricity prices increase?	SINGLE-SELECT <span style="float: right;">T28</span> 001 <input type="radio"/> Consume less electricity 002 <input type="radio"/> Cut down on other costs in your budget 003 <input type="radio"/> Do nothing, it will come out of savings or other monies 888 <input type="radio"/> Other, (specify)
T28. Specify Othes E T28 == 888	TEXT <span style="float: right;">T28_SO</span> .....
T29.If public electricity tariffs are to increase, who should pay higher prices?	SINGLE-SELECT <span style="float: right;">T29</span> 01 <input type="radio"/> Wealthy households 02 <input type="radio"/> Middle income households 03 <input type="radio"/> Poor + near poor households 04 <input type="radio"/> Government agencies 05 <input type="radio"/> Industry 06 <input type="radio"/> Urban households 07 <input type="radio"/> Rural households 08 <input type="radio"/> Everyone
T30. If you had to pay increased tariffs for electricity, how would you like government to utilize this additional money?	SINGLE-SELECT <span style="float: right;">T30</span> 001 <input type="radio"/> Healthcare schemes 002 <input type="radio"/> Education 003 <input type="radio"/> Jobs 004 <input type="radio"/> Pension plans 005 <input type="radio"/> Transport 006 <input type="radio"/> Urban/Rural development 007 <input type="radio"/> Electricity 888 <input type="radio"/> Other, please specify
T30. Specify Others E T30 == 888	TEXT <span style="float: right;">T30_SO</span> .....
T31.What do you think is the top concern for the country's energy sector? Single response.	SINGLE-SELECT <span style="float: right;">T31</span> 01 <input type="radio"/> Corruption in the sector 02 <input type="radio"/> Investing in new infrastructure 03 <input type="radio"/> Energy security 04 <input type="radio"/> Energy theft (illegal connections) 05 <input type="radio"/> Tariffs

## U. WOMEN'S EMPOWERMENT

STATIC TEXT

*Respondents should be a female headed household or female spouse of the household head/member in the household.*

STATIC TEXT

*MOBILITY STATEMENT Can you do the following activities alone or you have to go with your husband: Mark who decides about each of the activities below.*

U1.Visiting parents/relatives/friends within or outside the village	SINGLE-SELECT U1 01 <input type="radio"/> Can do herself 02 <input type="radio"/> Can do with husband 03 <input type="radio"/> Can do with others 04 <input type="radio"/> Other Specify
U1. Specify Others E U1 == 4	TEXT U1_SO .....
U2. Going to markets/banks/commercial centers/places of work.	SINGLE-SELECT U2 01 <input type="radio"/> Can do herself 02 <input type="radio"/> Can do with husband 03 <input type="radio"/> Can do with others 04 <input type="radio"/> Other Specify
U2. Specify Others E U2 == 4	TEXT U2_SO .....
U3.Going outside the village	SINGLE-SELECT U3 01 <input type="radio"/> Can do herself 02 <input type="radio"/> Can do with husband 03 <input type="radio"/> Can do with others 04 <input type="radio"/> Other Specify
U3. Specify Others E U3 == 4	TEXT U3_SO .....

STATIC TEXT

*ACCESS TO INFORMATION, ORGANIZATION MEMBERSHIP, VILLAGE ELECTRIFICATION COMMITTEE, CAPACITY BUILDING AND ACCESS TO FINANCE*

U4.If you are a member of a women's group, which type of group are you a member of/do you belong to?	MULTI-SELECT U4 001 <input type="checkbox"/> Not a member 002 <input type="checkbox"/> Mother's Group 003 <input type="checkbox"/> Agricultural Cooperatives 004 <input type="checkbox"/> Producer Group 005 <input type="checkbox"/> Female Community Health Volunteers (FCHVs) 006 <input type="checkbox"/> Commodity/Community User Group (Forest, Water etc.) 007 <input type="checkbox"/> Single Women Group 008 <input type="checkbox"/> Saving/Saving and Credit Cooperatives 009 <input type="checkbox"/> Other Sef Help Groups 555 <input type="checkbox"/> Other specify
U4. Specify Others E U4.Contains (555)	TEXT U4_SO .....

<p>U5.What do you think are the main constraints women face in participating in organizations or activities in the area?</p>	<p>SINGLE-SELECT <span style="float: right;">U5</span></p> <p>01 <input type="radio"/> Limited time</p> <p>02 <input type="radio"/> Lack of support from family or community</p> <p>03 <input type="radio"/> Limited confidence</p> <p>04 <input type="radio"/> Limited education</p> <p>05 <input type="radio"/> Other specify</p>
<p>U5. Specify Others</p> <p>E U5 == 5</p>	<p>TEXT <span style="float: right;">U5 SO</span></p> <p>-----</p>
<p>U6.Are you a member of the village electrification committee?</p>	<p>SINGLE-SELECT <span style="float: right;">U6</span></p> <p>01 <input type="radio"/> Yes</p> <p>02 <input type="radio"/> No</p>
<p>U7.How many times do you meet in a month?</p> <p>E U6 == 1</p>	<p>NUMERIC: INTEGER <span style="float: right;">U7</span></p> <p>-----</p>
<p>U8.Do you own an account in a bank or financial institution?</p> <p>I Read options aloud</p>	<p>SINGLE-SELECT <span style="float: right;">U8</span></p> <p>01 <input type="radio"/> No account</p> <p>02 <input type="radio"/> Own account</p> <p>03 <input type="radio"/> Joint account (with spouse)</p> <p>04 <input type="radio"/> Joint account (with group)</p>

## M. CONSUMPTION / EXPENDITURE

STATIC TEXT

*Interviewer Instructions: The Respondent should be the head of household.*

<p>M. Please select items</p>	<p>MULTI-SELECT: YES/NO <span style="float: right;">M_ITEMS</span></p> <p>01 <input type="checkbox"/> / <input type="checkbox"/> M1. Cereals &amp; cereal products (e.g.: rice, maize, wheat, flour, millet) and starchy staples (e.g.: cassava, plantain, yam, cocoyam)</p> <p>02 <input type="checkbox"/> / <input type="checkbox"/> M2. Pulses &amp; nuts (e.g.: beans, groundnuts, palm nuts, soy beans)</p> <p>03 <input type="checkbox"/> / <input type="checkbox"/> M3. Milk &amp; milk products (e.g.: powder, tinned, fresh)</p> <p>04 <input type="checkbox"/> / <input type="checkbox"/> M4.Edible oil (e.g.: mustard oil, soya bean oil, groundnut oil, coconut oil)</p> <p>05 <input type="checkbox"/> / <input type="checkbox"/> M5. Vegetables (e.g.: okra, tomato, onion, carrot, cabbage, garden egg) and Fruits (e.g.: bananas, coconut, pineapple, mango, orange, pawpaw)</p> <p>06 <input type="checkbox"/> / <input type="checkbox"/> M6. Egg, &amp; poultry</p> <p>07 <input type="checkbox"/> / <input type="checkbox"/> M6.A.fish (smoked/fresh)</p> <p>08 <input type="checkbox"/> / <input type="checkbox"/> M6.B. Meat and meat products</p> <p>09 <input type="checkbox"/> / <input type="checkbox"/> M7. Sugar</p> <p>10 <input type="checkbox"/> / <input type="checkbox"/> M8. Other food items (e,g, pepper, salt, spices, butter, jam, bread, groundnut paste, processed foods, etc.)</p> <p>11 <input type="checkbox"/> / <input type="checkbox"/> M9. Meals/food bought outside home</p> <p>12 <input type="checkbox"/> / <input type="checkbox"/> M10. Beverages (e.g.: malt drinks, minerals, coffee/Lipton/Milo)</p>
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M. CONSUMPTION / EXPENDITURE

Roster: ROSTER COMSUMPTION

generated by multi-select question M ITEMS

ROSTER\_M

<p>(M1-M11).A.Value of Consumption (local currency) during last 7 days: Purchased.</p> <p>I 888=Don't know</p>	<p>NUMERIC: INTEGER <span style="float: right;">M_A</span></p> <p>-----</p>
<p>(M1_M11).B.Value of Consumption (local currency) during last 7 days Produced/Acquired.</p> <p>I 888=Don't know</p>	<p>NUMERIC: INTEGER <span style="float: right;">M_B</span></p> <p>-----</p>
<p>(M1-M11).C. Value of Consumption (local currency) during last 7 days Received as a gift/ Donation.</p> <p>I 888=Don't know</p>	<p>NUMERIC: INTEGER <span style="float: right;">M_C</span></p> <p>-----</p>

M. CONSUMPTION / EXPENDITURE

EXPENDITURE-VALUE OF EXPENDITURE (LOCAL CURRENCY) DURING LAST 7 DAYS -888=DON'T KNOW

M. CONSUMPTION / EXPENDITURE / EXPENDITURE-VALUE OF EXPENDITURE (LOCAL CURRENCY) DURING LAST 7 DAYS -888=DON'T KNOW  
GOODS AND SERVICES MONTHLY EXPENDITURE

<p>M12.Medical/pharmacy expenses (e.g.: tablets/syrups, insecticide, condoms, pharmacy/chemist, traditional/herbal medicine)</p>	<p>NUMERIC: INTEGER <span style="float: right;">M12</span></p> <p>-----</p>
<p>M13.Soaps, disinfectants and cleaning supplies; cosmetics and toiletries</p>	<p>NUMERIC: INTEGER <span style="float: right;">M13</span></p> <p>-----</p>
<p>M14.Water supply for drinking and other uses (tanker services, pipe-borne, metered, bore-hole, well, purchased water)</p>	<p>NUMERIC: INTEGER <span style="float: right;">M14</span></p> <p>-----</p>
<p>M15.Mobile phone top-up</p>	<p>NUMERIC: INTEGER <span style="float: right;">M15</span></p> <p>-----</p>
<p>M16.Internet, land phone, dish, cable, and other household communication</p>	<p>NUMERIC: INTEGER <span style="float: right;">M16</span></p> <p>-----</p>
<p>M17.House Rent</p>	<p>NUMERIC: INTEGER <span style="float: right;">M17</span></p> <p>-----</p>
<p>M18.Transportation costs (fuel for own vehicles, cost of public transportation, buses, taxis)</p>	<p>NUMERIC: INTEGER <span style="float: right;">M18</span></p> <p>-----</p>
<p>M19.Other recurring monthly expenditure</p>	<p>NUMERIC: INTEGER <span style="float: right;">M19</span></p> <p>-----</p>



(wage of domestic workers, entertainment, etc.)

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M. CONSUMPTION / EXPENDITURE / EXPENDITURE-VALUE OF EXPENDITURE (LOCAL CURRENCY) DURING LAST 7 DAYS -888=DONT KNOW  
**GOODS AND SERVICES EXPENDITURE IN LAST 12 MONTHS**

<p>M20.School fees and other educational expenses Include uniform, PTA dues, books, tutor, school supplies, transport, food, etc.</p> <p>I NPR</p>	<p>NUMERIC: INTEGER <span style="float: right;">M20</span></p> <p>-----</p>
<p>M21.Clothing, shoes, and accessories</p> <p>I NPR</p>	<p>NUMERIC: INTEGER <span style="float: right;">M21</span></p> <p>-----</p>
<p>M22.Celebrations (e.g. funerals and expenses, weddings, festivals, naming ceremony, engagement)</p> <p>I NPR</p>	<p>NUMERIC: INTEGER <span style="float: right;">M22</span></p> <p>-----</p>
<p>M23.Gifts and donations (e.g.: donation to church made by the household, tithes)</p> <p>I Only include gifts and donations not already included in M.22,NPR</p>	<p>NUMERIC: INTEGER <span style="float: right;">M23</span></p> <p>-----</p>
<p>M24.Hospital/Doctor visits and Diagnostic tests (e.g.: consultations at private hospital, public hospital, traditional healer)</p> <p>I NPR</p>	<p>NUMERIC: INTEGER <span style="float: right;">M24</span></p> <p>-----</p>
<p>M25.Furniture (e.g.: mattresses, room furniture, furnishing items, floor mats, carpets)</p> <p>I NPR</p>	<p>NUMERIC: INTEGER <span style="float: right;">M25</span></p> <p>-----</p>
<p>M26.Purchase, Repair, maintenance, and building (e.g.: cement, roofing, paint, carpentry, labor for repairs, sewerage removal)</p> <p>I NPR</p>	<p>NUMERIC: INTEGER <span style="float: right;">M26</span></p> <p>-----</p>
<p>M27.Utensils &amp; kitchen equipment (e.g.: cups, plates, cutleries, cooking pots, buckets)</p> <p>I NPR</p>	<p>NUMERIC: INTEGER <span style="float: right;">M27</span></p> <p>-----</p>
<p>M28.Electronics: TV, radio-cassette player, VCR/DVD, Cassettes, CDs, records, satellite TV, MP3 player, video game player, pen drives, other digital accessories Computer or laptop purchase</p> <p>I NPR</p>	<p>NUMERIC: INTEGER <span style="float: right;">M28</span></p> <p>-----</p>
<p>M29.Appliances &amp; tools (e.g.: electric iron, electric fans, refrigerators, lanterns, brooms)</p> <p>I NPR</p>	<p>NUMERIC: INTEGER <span style="float: right;">M29</span></p> <p>-----</p>
<p>M30.Vehicles &amp; motorcycle &amp; bicycle (purchase or repair of own car/moto/ car battery)</p> <p>I NPR</p>	<p>NUMERIC: INTEGER <span style="float: right;">M30</span></p> <p>-----</p>

<p>M31.Remittance sent to family members and relatives</p> <p>I NPR</p>	<p>NUMERIC: INTEGER M31</p> <p>-----</p>
<p>M32.Losses due to theft, robbery, accidents, natural disasters, etc.</p> <p>I NPR</p>	<p>NUMERIC: INTEGER M32</p> <p>-----</p>
<p>M33.Other major expenses not yet covered (specify)</p> <p>I NPR</p>	<p>NUMERIC: INTEGER M33</p> <p>-----</p>

## O. HOUSEHOLD LAND OWNERSHIP AND OTHER ASSETS

STATIC TEXT

*Instruction: Enter the total values of following assets owned by the household. If some assets are owned by members, report aggregate values for all members. The Respondent should be the head of household.*

### O. HOUSEHOLD LAND OWNERSHIP AND OTHER ASSETS AGRICULTURAL LAND (INCLUDING CULTIVATED LAND, RESTING LAND, PREPARATION LAND AND OTHERS LIKE LAND FOR ANIMAL FOOD)

<p>O1. Do you own agricultural land (including cultivated land, resting land, preparation land and others like land for animal food)?</p>	<p>SINGLE-SELECT 01</p> <p>01 <input type="radio"/> Yes</p> <p>00 <input type="radio"/> No</p>
<p>O2.What unit is the land measured in?</p> <p>E 01 == 1</p>	<p>SINGLE-SELECT 02</p> <p>001 <input type="radio"/> Ropani</p> <p>002 <input type="radio"/> Bigha</p> <p>003 <input type="radio"/> Ana</p> <p>004 <input type="radio"/> Kattha</p> <p>005 <input type="radio"/> Dhur</p> <p>006 <input type="radio"/> Hectares</p> <p>555 <input type="radio"/> Other, specify</p>
<p>O2. Specify Others</p> <p>E 02 == 555</p>	<p>TEXT 02 S0</p> <p>-----</p>
<p>O3. What is the total size of the land?</p> <p>I Area</p> <p>E 01 == 1</p>	<p>NUMERIC: INTEGER 03</p> <p>-----</p>
<p>O4. If you were to sell, what is the total value?</p> <p>I NPR</p> <p>E 01 == 1</p>	<p>NUMERIC: INTEGER 04</p> <p>-----</p>

## CONTROL SHEET - INTERVIEW STATUS

If we need any further information we might contact you.Would you please provide us your

TEXT

Phone Number

mobile or landline number?

.....

STATIC TEXT

*Thank You very much for your time.*

CONTROL SHEET - INTERVIEW STATUS  
VISIT 1 : STATUS

Gps Location

GPS

LOCATION

N

W

A

End time of Interview

DATE: CURRENT TIME

TIME\_END VISIT1

Disposition Code

SINGLE-SELECT

DISP1

- 01  No Household Member at home or no competent respondent at home
- 02  Entire household absent for extended period
- 03  Dwelling vacant or address not a dwelling
- 04  Out of Scope (the household is not within the sample)
- 05  Completed (all modules are complete)
- 06  Postponed/Rescheduled (interview was postponed and a new time scheduled)
- 07  Partial Complete/Will Return (interview was stopped but will continue later)
- 08  Partial Complete/Interview Finished (interview was stopped and will not continue)
- 09  Final Refusal (interview was refused/no interview completed):
- 10  Temporary Refusal (interview was refused, FS will follow-up)
- 11  Other Non-Interview (specify)

Other Non-Interview (specify)

TEXT

OTHER1 SPECIFY

E DISP1==11

[ENUMERATOR : Record date on when respondent can be contacted

TEXT

RESCHD\_2

E DISP1==1 || DISP1==6 || DISP1==7 || DISP1==10 || DISP1==11

[ENUMERATOR : Record time on when respondent can be contacted

TEXT

RESCHD\_2\_T

E DISP1==1 || DISP1==6 || DISP1==7 || DISP1==10 || DISP1==11

TEXT

RESCHD 2 D

[ENUMERATOR : Record contact number of respondent

E DISP1==1 || DISP1==6 || DISP1==7 || DISP1==10 || DISP1==11

.....

CONTROL SHEET - INTERVIEW STATUS  
VISIT 2 : STATUS

E DISP1==1 || DISP1==6 || DISP1==7 || DISP1==10 || DISP1==11

Date of Visit 2 with respondent

DATE

DATE\_VISIT2

.....

Disposition Code

SINGLE-SELECT

DISP2

- 01  No Household Member at home or no competent respondent at home
- 02  Entire household absent for extended period
- 03  Dwelling vacant or address not a dwelling
- 04  Out of Scope (the household is not within the sample)
- 05  Completed (all modules are complete)
- 06  Postponed/Rescheduled (interview was postponed and a new time scheduled)
- 07  Partial Complete/Will Return (interview was stopped but will continue later)
- 08  Partial Complete/Interview Finished (interview was stopped and will not continue)
- 09  Final Refusal (interview was refused/no interview completed):
- 10  Temporary Refusal (interview was refused, FS will follow-up)
- 11  Other Non-Interview (specify)

Other Non-Interview (specify)

TEXT

OTHER2\_SPECIFY

E DISP2==11

.....

[ENUMERATOR : Record date on when respondent can be contacted

TEXT

RESCHD\_3

E DISP2==1 || DISP2==6 || DISP2==7 || DISP2==10 || DISP2==11

.....

[ENUMERATOR : Record time on when respondent can be contacted

TEXT

RESCHD\_3\_T

E DISP2==1 || DISP2==6 || DISP2==7 || DISP2==10 || DISP2==11

.....

[ENUMERATOR : Record contact number of respondent

TEXT

RESCHD\_3\_D

E DISP2==1 || DISP2==6 || DISP2==7 || DISP2==10 || DISP2==11

.....

CONTROL SHEET - INTERVIEW STATUS  
VISIT 3 : STATUS

Date of Visit 3 with respondent	DATE <span style="float: right;">DATE VISIT3</span> .....
Disposition Code	<p>SINGLE-SELECT <span style="float: right;">DISP3</span></p> <p>01 <input type="radio"/> No Household Member at home or no competent respondent at home</p> <p>02 <input type="radio"/> Entire household absent for extended period</p> <p>03 <input type="radio"/> Dwelling vacant or address not a dwelling</p> <p>04 <input type="radio"/> Out of Scope (the household is not within the sample)</p> <p>05 <input type="radio"/> Completed (all modules are complete)</p> <p>06 <input type="radio"/> Postponed/Rescheduled (interview was postponed and a new time scheduled)</p> <p>07 <input type="radio"/> Partial Complete/Will Return (interview was stopped but will continue later)</p> <p>08 <input type="radio"/> Partial Complete/Interview Finished (interview was stopped and will not continue)</p> <p>09 <input type="radio"/> Final Refusal (interview was refused/no interview completed):</p> <p>10 <input type="radio"/> Temporary Refusal (interview was refused, FS will follow-up)</p> <p>11 <input type="radio"/> Other Non-Interview (specify)</p>
Other Non-Interview Specify	TEXT <span style="float: right;">OTHER3 SPECIFY</span> .....

## APPENDIX A — VALIDATION CONDITIONS AND MESSAGES

- [1] [MULTI\\_TIME\\_USE: Please select the household member group](#)".

Validation Condition:

```
(self.Contains(1) && HH_ROSTER.Any(x=>x.A3==2 && x.A5>=15) ) ||  
(self.Contains(2) && HH_ROSTER.Any(x=>x.A3==2 && x.A5<=15) ) ||  
(self.Contains(3) && HH_ROSTER.Any(x=>x.A3==1 && x.A5>=15) ) ||  
(self.Contains(4) && HH_ROSTER.Any(x=>x.A3==1 && x.A5<=15) )
```

Validation Message: Error ! Please select member group by taking reference with household roster.

- [2] [MULTI\\_HEALTH\\_IMPACTS: Please select the household member group](#)".

Validation Condition:

```
(self.Contains(1) && HH_ROSTER.Any(x=>x.A3==2 && x.A5>=15) ) ||  
(self.Contains(2) && HH_ROSTER.Any(x=>x.A3==2 && x.A5<=15) ) ||  
(self.Contains(3) && HH_ROSTER.Any(x=>x.A3==1 && x.A5>=15) ) ||  
(self.Contains(4) && HH_ROSTER.Any(x=>x.A3==1 && x.A5<=15) ) ||  
(self.Contains(5) && HH_ROSTER.Any(x=>x.A5<= 4) )
```

Validation Message: Error ! Please select member group by taking reference with household roster.

## APPENDIX B — OPTIONS

[1] **District: 3.District**

Options: 1: Taplejung, 2: Panchthar, 3: Ilam, 4: Jhapa, 5: Morang, 6: Sunsari, 7: Dhankuta, 8: Tehrathum, 9: Sankhuwasabha, 10: Bhojpur, 11: Solukhumbu, 12: Okhaldhunga, 13: Khotang, 14: Udayapur, 15: Saptari, 16: Siraha, 17: Dhanusha, 18: Mahottari, 19: Sarlahi, 20: Sindhuli, 21: Ramechhap, 22: Dolakha, 23: Sindhupalchok, 24: Kavrepalanchok, 25: Lalitpur, 26: Bhaktapur, 27: Kathmandu, 28: Nuwakot, 29: Rasuwa, 30: Dhading, 31: Makwanpur, 32: Rautahat, 33: Bara, 34: Parsa, 35: Chitwan, 36: Gorkha, 37: Lamjung, 38: Tanahun, 39: Syangja, 40: Kaski, 41: Manang, 42: Mustang, 43: Myagdi, 44: Parbat, 45: Baglung, 46: Gulmi, 47: Palpa, 48: Nawalparasi, 49: Rupandehi, 50: Kapilbastu, 51: Arghakhachi, 52: Pyuthan, 53: Rolpa, 54: Rukum, 55: Salyan, 56: Dang, 57: Banke, 58: Bardiya, 59: Surkhet, 60: Dailekh, 61: Jajarkot, 62: Dolpa, 63: Jumla, 64: Kalikot, 65: Mugu, 66: Humla, 67: Bajura, 68: Bajhang, 69: Achham, 70: Doti, 71: Kailali, 72: Kanchanpur, 73: Dadeldhura, 74: Baitadi, 75: Darchula,

[2] **B10: B10.The walls of the dwelling are mainly made of what material?**

Options: 1: Wood and mud, 2: Wood and thatch, 3: Wood only, 4: Stone only, 5: Stone and mud, 6: Stone and cement, 7: Blocks, plastered with cement, 8: Blocks, unplastered, 9: Bricks and Cement, 10: Mud bricks (traditional), 11: Steel, 12: Cargo container, 13: Parquet or polished wood, 14: Chip wood, 15: Corrugated iron sheet, 16: Asbestos, 17: Reed/bamboo, 555: Other, specify,

[3] **N\_LIST1: SELECT ITEMS**

Options: 1: Vehicle (Car, pickup truck, etc), 2: Motorcycle, 3: Bicycle, 5: Boat, 6: Tractor, 7: Domestic water pump, 8: Cow/bull/calves, 9: Water buffalo, 10: Horse/donkey, 11: Sheep, 12: Goat, 13: Pig, 14: Rabbit, 15: Fish (Aquaculture), 17: Chicken, 18: Duck, 16: Other, specify,

[4] **N\_LIST2: SELECT ITEMS**

Options: 1: Incandescent Light Bulb, 2: Fluorescent Tube, 3: Compact Fluorescent Light (CFL) Bulb, 4: LED Light Bulb, 5: Radio/CD Players/sound system, 6: VCD/DVD, 7: Fan, 8: Refrigerator, 9: Hair dryer, 10: Electric food processor/blender, 11: Electric rice cooker, 12: Microwave oven, 13: Electric Iron, 14: Washing machine, 15: Electric sewing machine, 16: Air cooler, 17: Air conditioner, 18: Space Heater, 19: Electric water heater, 20: Solar based water heater, 21: Computer/ Laptop, 22: Electric hot water pot/kettle, 23: Smartphone (internet phone) charger, 24: Regular mobile phone charger, 25: Black & White TV, 26: Regular Color TV, 27: Flat color TV, 28: Electric Water Pump, 29: Other, specify,

# LEGEND

Legend and structure of information in this file

Name of section	Enabling condition for this section	Type of question, scope	Variable name
<p><b>SECTION 5: OTHER INCOME SOURCES</b></p> <p>E s4_other_sources_which.Contains(98)</p> <hr/> <p><b>Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur?</b></p> <p>I This refers to family relations E s3_time_other &gt; 0 V1 s4_re1_leaders_which.Contains(98) M1 Can not be itself V2 (s3_time_other_breeding_advice &lt;= (50 - s3_time_art_insem_advice))    s3_time_other_breeding_advice == 0 M2 This person is not in the list F optioncode != s5_ignored_option_code</p>		<p>ANSWER OPTIONS</p> <p>MULTI-SELECT SCOPE: PREFILLED</p> <p>01 <input type="checkbox"/> Community animal health workers</p> <p>02 <input type="checkbox"/> Private</p> <p>03 <input type="checkbox"/> Government</p> <p>04 <input type="checkbox"/> Livestock keepers association</p> <p>05 <input type="checkbox"/> NGO</p> <p>And 5 other [13]</p>	s4_re1_leaders_other
<p><b>Additional information:</b></p> <p>"I" – Question instruction</p> <p>"E" – Enabling condition</p> <p>"V1" – Validation condition №1</p> <p>"M1" – Message for validation №1</p> <p>"F" – Filter in Categorical questions</p>		<p><b>Link to full set in appendix</b></p>	

## Breadcrumbs

Type or roster	Roster Title
CHAPTER 3 IDENTIFICATION / Roster:	<b>LEADER RELATION DETAILS</b> generated by fixed list:
01	Ward Livestock Officer
02	Village Livestock Officer
99	Other (specify)

**List items**