

Household questionnaire for the project “Linking energy use to household food security in India: An exploratory research”

MODULE A. HOUSEHOLD IDENTIFICATION AND INTERVIEW DETAILS

HOUSEHOLD IDENTIFICATION <u>READ</u> : Thank you for participating.	
A01: Field site	Penjerla1 YM Tanda2 Kondakal3 Dobipet4 Nandigama5 Bandoniguda6 Chevella7 Anantharam8 Aziznagar9 Yethbarpally10 Shabad11 Peddaveedu12 Peddashapur13 Pilloniguda14 Nanajpur15 Satamrai16
A02. Household Identification	_____ _____
A03. Household coordinates [AUTOMATIC]	a. Latitude: _____ b. Longitude: _____
A04. Name/code of enumerator:	_____ _____
A05. Start time of interview (hh:mm) [AUTOMATIC]	:
A06. Date of visit (dd/mm/yyyy [AUTOMATIC])	/ /

MODULE B. HOUSEHOLD CHARACTERISTICS & ASSETS

Enumerator: Ask the respondent whoever is most knowledgeable about the dwelling characteristics, livestock and asset ownership

HOUSEHOLD CHARACTERISTICS <i>READ:</i> First, I will ask you some questions about your family background and characteristics of the place your household live in. Let me tell you a little bit about what we mean by household. For our purposes today, members of a household are adults or children that live together and eat from the 'same pot', and that could include not only family members but also servants, lodgers, and agricultural laborers.	
B01. ENUMERATOR: OBSERVE (DO NOT ASK) Roof top material (outer covering):	Tile1 Wood2 Corrugated metal3 Plastic sheeting4 Thatched/vegetable matter/sticks5 Mud/cow dung6 Concrete7 Other (specify: _____)98
B02. ENUMERATOR: OBSERVE (DO NOT ASK) Floor material:	Earth/mud1 Concrete/flag stone/cement2 Tile/bricks3 Wood4 Other (specify: _____)98
B03. Does your household own or rent or borrow this dwelling?	Owned1 Rented2 Borrowed3 Other (specify: _____)98 Don't know / prefer not to answer99
B04. How many rooms are there in this dwelling? (Do not consider bathrooms, hallways, garage, cellar for example)	Number of rooms: _____
B05. What is the main type of toilets your household uses?	Flush, shared1 Flush, private2 Ventilated improved pit latrine (VIP)3 Pit latrine4 Community toilet5 Pan / bucket6 No toilet7 Other (specify: _____)98
B06. Is there a water source inside the dwelling?	No0 Yes1
B07. What is the main source of water for general use of the household?	Piped into dwelling1 Piped into plot/yard2 Public tap (someone elses private tap)3 Tubewell/borehole/borewells4 Protected dug well5 Protected spring6 Rainwater collection7 Unprotected dug well/springs8 River/ponds/streams9 Tankers-truck/vendor10 Bottled water11 Other12
B08. What is the main source of drinking water for your household?	Piped into dwelling1 Piped into plot/yard2 Public tap (someone elses private tap)3 Tubewell/borehole/borewells4 Protected dug well5 Protected spring6 Rainwater collection7 Unprotected dug well/springs8 River/ponds/streams9 Tankers-truck/vendor10 Bottled water11 Other12
B09. What is the process through which you prepare the water used for drinking? [mark all that apply]	Not treated / not applicable1 Filtered2 Boiled3 Iodine, chlorine, or other mineral/natural treatments4 UV /RO treated5 Other6 Don't know / prefer not to answer99
B10. What mode of transport does your household use to get to the nearest market? [mark all that apply]	No access at all1 Walk2 Bicycle3 Scooter, motorcycle, tricycle4 Tractor5 Car / truck6 Borrowed ride7

	Public transport.....8 Other (specify: _____)98 Don't know / prefer not to answer99
B11. In summer, What do you do to keep your accommodation cool? [Mark all that apply]	Do nothing1 Use hand fan2 Turn on electric fan3 Turn on air cooler4 Turn on air conditioner5 Close the windows during the day6 Cook less food at home7 Hang damp curtain8 Other (specify: _____)98
B12. What is your religion?	Hinduism1 Islam2 Christianity3 Sikhism4 Jainism5 Buddhism6 Zoroastrianism7 Others8 Prefer not to answer/ Don't know99
B13: What is your social group?	Scheduled Tribes1 Scheduled Castes2 Other Backward Classes3 Others4 Prefer not to answer/ Don't know99
B14: Do your households own any land?	Do not own any land1 Less than 0.022 0.02-0.403 0.41-1.004 1.01-2.005 2.01-4.006 4.01-6.007 6.01-8.008 Greater than or equal to 8.019
B15: Do your household currently receive any support from the government?	Not received any support1 Pradhan Mantri Garib Kalyan Anna Yojana (PDS/Ration)2 Pradhan Mantri Ujjwala Yojana' (PMUY)3 Rythu Bandhu4 MGNREGS5 Pradhan Mantri Awas Yojana6 Aasara Pension7 Mahalakshmi scheme8 Arogya laxmi9 Kausha vikas yojana10 Raithu Bima11 Mission Bhagiratha12 Gruha Jyothi13 Others (specify: _____)98 Prefer not to answer/ Don't know99
ASSET OWNERSHIP and LIVESTOCK	
B16. Does anyone in your household own any of the following items? If yes, how many?	Number of items If No >> next type
B16_1	Plough
B16_2	Pumping machine for irrigation
B16_3	Trailer/Cart
B16_4	Wheelbarrow
B16_5	Tractor
B16_6	Bicycle
B16_7	Motorbike/ Scooter
B16_8	Car/ Truck
B16_9	Electric fan
B16_10	Air-conditioning
B16_11	Air cooler/ Swamp cooler
B16_12	Television
B16_13	Computer/ laptop / tablet
B16_14	Fridge/ freezer
B16_15	Washing machine
B16_16	Mobile phone

B16_17	Induction plate/ stove	
B16_18	Ovens	
B16_19	Rice cooker	
B16_20	Grinder/ mixer	
B16_21	Pressure cooker	
B16_22	Gas stove	
B17. Does the household own [LIVESTOCK] today?		a) YES/ NO If 1 >> ask part b
B17_1	Cattle	No0 Yes1
B17_2	Heifers	No0 Yes1
B17_3	Goats, sheep and pigs	No0 Yes1
B17_4	Chickens	No0 Yes1
B17_5	Donkeys	No0 Yes1
B17_6	Guinea fowl	No0 Yes1
B17_7	Pigeon, duck, turkey, other fowl	No0 Yes1

		b) What is the main purpose of owning?
		Owning for consumption1
		Owning for other purposes.2
		Owning for consumption1
		Owning for other purposes.2
		Owning for consumption1
		Owning for other purposes.2
		Owning for consumption1
		Owning for other purposes.2
		Owning for consumption1
		Owning for other purposes.2
		Owning for consumption1
		Owning for other purposes.2

MODULE C. HOUSEHOLD LISTING AND DEMOGRAPHICS

Enumerator: Ask these questions about all household members. The respondent should be the one most knowledgeable about the age, completed education, and occupation of household members.

HOUSEHOLD SCHEDULE READ: First, we would like to ask you about each member of your household. Household members include anyone who has lived in your house for at least 6 of the last 12 months, but does not include anyone who lives here but eats separately. Newborn children less than 6 months old and anyone who has joined the household less than 6 months ago but has the intention of staying for a longer period of time are also considered members of the household. Please do not include anyone who died recently, even if he or she lived here more than 6 months in last 12 months, nor anyone who left the household less than 6 months ago with the intention of being away from the household for a longer period of time or permanently (this includes either leaving through marriage, or servants, lodgers, and agricultural laborers have left).

I D C O D E	Nickname of household member?	What is [NAME's] sex?	What is [NAME's] relationship to the household head?	What is [NAME's] age?	Is [NAME] currently attending school?	What is the highest grade of education completed by [NAME]?	If [NAME] is older than 18 years old, ask...			
	[Start with primary respondent] (Max – 10)	1 = Male 2 = Female	CODE 1	(in complete years)	0 = No 1 = Yes	CODE 2	What was the employment status of [NAME] in the past 7 days? If 4-10 >> next member CODE 3	In the past 12 months, what was [NAME]'s primary occupation? CODE 4	Does [NAME] have a secondary occupation? 0 = No 1 = Yes If 0 >> next member	What is [NAME]'s secondary occupation? CODE 4
	C01	C02	C03	C04	C05	C06	C07	C08	C09	C10
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

THIS QUESTION IS CODED DIFFERENTLY IN KOBO.

Codes for Module C

Code 1 (C03) Relationship to household head	Code 2 (C06) Education level	Code 3 (C07): Employment status	Code 4 (C08): Occupation
Household head.....1	No education.....0	Worked for pay (salary, wage, self-employed: see code 4)1	Farming.....1 Includes occupation like working own farm (crop production), sharecropper (crop production), fish farming/fishpond, raising poultry and raising livestock
Spouse.....2	Literate without formal schooling1	Worked without pay (apprentice, family business, agriculture own land)2	Wage labour2 Includes occupation like wage labour, agricultural day labour, transport worker (e.g. bus/truck helper), earth work labour, construction labour, sweeper, scavenger, tea garden worker, apprentice and other wage labour
Son/daughter3	Literate with formal schooling	Did not work but have a job.....3	Salaried worker3 Includes occupation like government/ parastatal, private enterprise (e.g. salesperson, manager), house maid, Teacher (Primary school/ high school/ college/ university) and NGO worker.
Son/daughter-in-law.....4	Below primary.....2	Did not work but looked for a job.4	Production.....4 Includes occupation like food processing, brewer/alcohol processing, handicrafts and other small industry.
Grandson/granddaughter.....5	Primary3	Did not work because:	Trader5 Includes occupation like small trader (roadside stand or stall), medium trader (shop or small store) and large trader (large shop or wholesale)
Mother/Father.6	Middle4	Only studied (student)5	Self employment6 Includes occupations like milk, collector, feed supplier, animal breeder, veterinary doctor, fisherman, driver, tailor/ seamstress, potter/ brickmaker, blacksmith, welder, hair cutter, cobbler, clothes washer, repairman (appliances), carpenter, mason, contractor, doctor/engineer, herbal doctor, lawyer/deed writer, house tutor, religious leader (pandit/ imam/ muazzem/ pastor), plumber, electrician mechanic (vehicles/bike), midwife and beggar.
Brother/sister.....7	Secondary.....5	Too young (not student)6	
Nephew/niece8	Higher Secondary6	Too old/retired7	
Nephew/niece of spouse9	Diploma/ certificate course7	Home/household work (incl live-in servant)8	
Cousin of household head10	Graduate.....8	Disabled/invalid9	
Brother/sister-in-law11	Postgraduate or above9	Don't need to10	
Mother/father-in-law12			
Cousin of household head's spouse13			
Other relative14			
Maid/other non-relative15			

Module D HOUSEHOLD DECISION MAKING

Enumerator: Ask the primary respondent, who is self-identified as the primary members responsible for decision making, both social and economic, within the household.

FOOD-RELATED DECISIONS <i>READ:</i> For the following questions, I would like to know who in your household mainly makes the decisions on the following activities:	
D01. Who mainly decides what foods to buy for the daily meals of the household members? [mark all that apply]	Main male / husband 1 Main female / wife 2 Someone else in the household..... 3 Someone else outside the household..... 4 Don't know / prefer not to answer 99
D02. Who mainly takes care of buying ingredients for cooking? [mark all that apply]	Main male / husband 1 Main female / wife 2 Someone else in the household..... 3 Someone else outside the household..... 4 Don't know / prefer not to answer 99
D03. Who mainly takes care of cooking? [mark all that apply]	Main male / husband 1 Main female / wife 2 Someone else in the household..... 3 Someone else outside the household..... 4 Don't know / prefer not to answer 99
D04. Who mainly decides on the money to spend on food and drinks? [mark all that apply]	Main male / husband 1 Main female / wife 2 Someone else in the household..... 3 Someone else outside the household..... 4 Don't know / prefer not to answer 99
D05. Who mainly decides on the purchases of cooking stoves and utensils? [mark all that apply]	Main male / husband 1 Main female / wife 2 Someone else in the household..... 3 Someone else outside the household..... 4 Don't know / prefer not to answer 99
D06. Who mainly decides on the purchases of electronic appliances used to heat water, prepare, cook or store food? [mark all that apply]	Main male / husband 1 Main female / wife 2 Someone else in the household..... 3 Someone else outside the household..... 4 Don't know / prefer not to answer 99
FUEL/ENERGY RELATED DECISION-MAKING <i>READ:</i> For the following questions, I would like to know who in your household mainly makes the decisions related to energy use. By energy, we mean the types of fuel your household use to cook and to power light bulbs and appliances. It can be electricity, biogas, solar energy, wind energy, LPG, charcoal, natural gas, coke, firewood and chips, kerosene, dung cake, etc.	
D07. Who mainly takes care of gathering the main cooking fuel? [mark all that apply]	Main male / husband 1 Main female / wife 2 Someone else in the household..... 3 Someone else outside the household..... 4 Don't know / prefer not to answer 99
D08. Who mainly takes care of preparing the cookstoves and fuel for cooking, including setting up the fuel and lighting/ turning on the cookstoves (but not including gathering fuel or cooking time)? [mark all that apply]	Main male / husband 1 Main female / wife 2 Someone else in the household..... 3 Someone else outside the household..... 4 Don't know / prefer not to answer 99
D09. Who mainly decides on the money to spend on energy and fuel? [mark all that apply]	Main male / husband 1 Main female / wife 2 Someone else in the household..... 3 Someone else outside the household..... 4 Don't know / prefer not to answer 99
D10. Who mainly make decisions about the type of energy/ fuel used for cooking in the household? [mark all that apply]	Main male / husband 1 Main female / wife 2 Someone else in the household..... 3 Someone else outside the household..... 4 Don't know / prefer not to answer 99

MODULE E HOUSEHOLD ENERGY USE

Enumerator: Ask this section to member who has the most knowledge on their households' energy sources for various end uses.

HOUSEHOLD LIGHTING <i>READ</i> As you are responsible for deciding the spending on energy and fuel, I would like to ask you some questions about the sources of energy used for different activities in your household.	
E01. Does this household use anything for lighting? If 0 > Skip to E04	No.....0 Yes.....1
E02. What does this household use most of the time as energy for lighting, or as a light source? Please tell me the light source used for the most time each day,	Electricity (including solar panels).....1 Solar-powered lantern or flashlight2 Rechargeable flashlight, mobile, torch or lantern3 Battery powered flashlight, torch or lantern.....4 Biogas lamp.....5 LPG lamp6 Gasoline lamp7 Kerosene/ paraffin lamp.....8 Oil lamp9 Candle10 Open fire.11 Other.....97
E03. What other energy for lighting, or light source does this household use? [mark all that apply]	Electricity (including solar panels).....1 Solar-powered lantern or flashlight2 Rechargeable flashlight, mobile, torch or lantern3 Battery powered flashlight, torch or lantern.....4 Biogas lamp.....5 LPG lamp6 Gasoline lamp7 Kerosene/ paraffin lamp.....8 Oil lamp9 Candle10 Open fire.11 Other.....97
HOUSEHOLD ELECTRICITY	
E04: Do you have electricity in your household? If 0 > Skip to E16	No.....0 Yes.....1
E05. What source of electricity does your household have access to in this month? [mark all that apply]	National grid connection from1 Local mini grid2 Solar home system3 Solar lantern4 Electric generator5 Rechargeable battery6 Dry cell battery / torch7 Other (specify _____)98
E06. What source of electricity is used most of the time in this household?	National grid connection from1 Local mini grid2 Solar home system3 Solar lantern4 Electric generator5 Rechargeable battery6 Dry cell battery / torch7 Other (specify _____)98
E07. What appliances are powered using this household's [NAME OF MAIN electricity system from E06]? [mark all that apply]	Mobile phone charger1 Computer/laptop/tablet charger2 Television3 Fan4 Refrigerator/ Freezer.....5 Rice cooker6 Cooking stoves.....7 Air conditioner8 Air cooler9 Electric oven.....10 Grinder/ mixer11 Pressure cooker12 Induction plate/electric cookstove13 Washing machine.....14 Other97

E08. Do you know in the last 7 days, how many hours of electricity were available each day on average from [NAME MAIN electricity system from E06]? (Maximum 24 hours)	Yes.....1 Does not know / unsure.....99 If yes, then ask Number of hours _____
E09. Do you know in the last 7 days, how many hours of electricity were available each evening on average, from 6:00 pm to 10:00 pm from [NAME MAIN electricity system from E06]? (Maximum 4 hours)	Yes.....1 Does not know / unsure.....99 If yes, then ask Number of hours _____
E10. Do you know in the last 7 days, how many times were there unscheduled outages or blackouts from [NAME MAIN electricity system from E06]?	Yes.....1 Does not know / unsure.....99 If yes, then ask Number of outages or blackouts _____
E11. What is the total duration of all the unscheduled outages or blackouts in the last 7 days?	Yes.....1 Does not know / unsure.....99 If yes, then ask Number of hours _____ Number of minutes _____
E12. In the last 12 months, did any of this household's appliances get damaged because the voltage was going up and down in the [NAME MAIN electricity system from E06]?	No.....0 Yes.....1
E13. In the last 12 months, did anyone using [NAME MAIN electricity system from E06] die or have permanent limb (bodily injury) damage?	No.....0 Yes.....1
E14. During the last 4 weeks, was there a time when you or others in your household did not use as much electricity as preferred because electricity was too expensive?	No.....0 Yes.....1
E15. Whom does your household currently pay for [NAME MAIN electricity system]?	No one.....1 Energy company/National utility.....2 Pre-paid meter card seller.....3 Community/village/municipality.....4 Relative.....5 Neighbor.....6 Landlord.....7 Local store.....8 Utility office.....9 Bank.....10 Post office.....11 Other.....97
HOUSEHOLD COOKING	
E16. Is any food or drink consumed by household members cooked or prepared at the household dwelling using a cookstove, fire or other cooking device? If 0 > Skip to next module	No.....0 Yes.....1
E17. How many stoves (including open fires) are used for these activities?	Number of cookstoves... _ _
E18. Which cookstove do your household use most of the time for these activities If 1-3 >> Skip to E22 If 4-5 >> Skip to E20	Solar cooker (thermal energy, not solar panels).....1 Electric stove.....2 Piped natural gas stove.....3 Biogas stove.....4 Liquefied petroleum gas (LPG)/cooking gas stove.....5 Manufactured solid fuel stove.....6 Chulha/ Traditional solid fuel stove (non-manufactured).....7 Iron stove/ Kumpati.....8 Liquid fuel stove.....9 Moveable firepan.....10 Three stone stove/open fire.....11 Other (specify _____).....98

E19. What type of fuel or energy source does this household use most of the time in this cookstove for cooking food, making tea/coffee and boiling drinking water?	Alcohol/ethanol.....1 Gasoline/diesel (not in generator)2 Kerosene/paraffin3 Coal/lignite unprocessed.....4 Coal/lignite briquettes/pellets5 Charcoal unprocessed6 Charcoal briquettes/pellets7 Wood.....8 Agricultural or crop residue/ grass/ straw/shrubs/corn cobs9 Animal waste/dung.....10 Processed biomass pellets/briquettes11 Woodchips12 Garbage/plastic.....13 Sawdust14 Other97
E20. On a single trip, how long does it take for members of your household to go to collect the fuel, get the fuel, and come back?	Yes.....1 Does not know / unsure.....99 If yes, then ask Number of hours _____ Number of minutes _____
E21. In the past month (the last 30 days), how many times has any member of your household collected this fuel for household cooking?	Yes.....1 Does not know / unsure.....99 If yes, then ask Number of times in past month _____
E22. Is this cookstove used indoor or outdoor?	Indoor1 Outdoor2
E23. Why do your household use this as the main fuel or energy source for cooking? ENUMERATOR:: ASK QUESTION WITHOUT TELLING THE OPTIONS AND SELECT ALL OPTIONS THAT ARE MENTIONED.	It is better for health because there is no smoke1 It takes less time to prepare and cook2 It is more available than other fuels/ it is the only option3 It is cheaper to use than other fuels4 It is better for the environment5 It is safer to use than other fuels6 Food tastes better using this fuel7 They are promoted as part of the government scheme/subsidy8 Others (specify: _____)98
E24. In the past 12 months, how often was this fuel or energy source unavailable in the quantity you desired?	Often (more than once a month)1 Sometimes (4-12 times a year)2 Rarely (less than 4 times a year)3 Never (always available)4 Does not know / unsure99
E25. What other fuels and energy sources does this household use in this cookstove or device for cooking food and making drinks? [Mark all that apply]	No others.....0 Alcohol/ethanol.....1 Gasoline/diesel (not in generator)2 Kerosene/paraffin3 Coal/lignite unprocessed.....4 Coal/lignite briquettes/pellets5 Charcoal unprocessed6 Charcoal briquettes/pellets7 Wood.....8 Agricultural or crop residue/ grass/ straw/shrubs/corn cobs9 Animal waste/dung.....10 Processed biomass pellets/briquettes11 Woodchips12 Garbage/plastic.....13 Sawdust14 Other97
E26. Yesterday , do you know how much time was this cookstove used for cooking food, making tea/coffee, and boiling drinking water?	Yes.....1 Does not know / unsure.....99 If yes, then ask Number of hours _____ Number of minutes _____
E27. How often did you use the cookstove or cooking device over the last week (last 7 days) for these activities?	Several times each day.....1 About once per day2 A few times a week3 About once a week.....4

	Does not know / unsure.99
E28. How often do you normally use the cookstove or cooking device during heatwave for these activities? By heatwave, we mean when the average temperature is over 40 degree.	Several times each day.....1 About once per day2 A few times a week3 About once a week.....4 Does not know / unsure.99
E29. [If number of cookstoves from E17 > 1] Apart from [NAME Main cookstove from E18], what other cookstove do your household use most of the time for these activities?	Solar cooker (thermal energy, not solar panels)1 Electric stove.....2 Piped natural gas stove3 Biogas stove.....4 Liquefied petroleum gas (LPG)/cooking gas stove5 Manufactured solid fuel stove6 Chulha/ Traditional solid fuel stove (non-manufactured)7 Iron stove/ Kumpati.....8 Liquid fuel stove9 Moveable firepan.....10 Three stone stove/open fire11 Other (specify _____)98
E30. [If number of cookstoves from E17 > 1] What type of fuel or energy source does this household use most of the time in this cookstove for cooking food, making tea/coffee and boiling drinking water?	Alcohol/ethanol.....1 Gasoline/diesel (not in generator)2 Kerosene/paraffin3 Coal/lignite unprocessed.....4 Coal/lignite briquettes/pellets5 Charcoal unprocessed6 Charcoal briquettes/pellets7 Wood8 Agricultural or crop residue/ grass/ straw/shrubs/corn cobs9 Animal waste/dung.....10 Processed biomass pellets/briquettes11 Woodchips12 Garbage/plastic.....13 Sawdust14 Other97
E31. [If number of cookstoves from E17 > 1] On a single trip, how long does it take for members of your household to go to collect the fuel, get the fuel, and come back?	Yes.....1 Does not know / unsure.....99 If yes, then ask Number of hours Number of minutes
E32. [If number of cookstoves from E17 > 1] In the past month (the last 30 days), how many times has any member of your household collected this fuel for household cooking?	Yes.....1 Does not know / unsure.....99 If yes, then ask Number of times in past month
E33. [If number of cookstoves from E17 > 1] Is this cookstove used indoor or outdoor?	Indoor1 Outdoor2
E34. Why do your household use this as the main fuel or energy source for cooking? ENUMERATOR: ASK QUESTION WITHOUT TELLING THE OPTIONS AND SELECT ALL OPTIONS THAT ARE MENTIONED.	It is better for health because there is no smoke1 It takes less time to prepare and cook2 It is more available than other fuels/ it is the only option3 It is cheaper to use than other fuels.....4 It is better for the environment5 It is safer to use than other fuels6 Food tastes better using this fuel7 They are promoted as part of the government scheme/subsidy8 Others (specify: _____)98
E35. [If number of cookstoves from E17 > 1] In the past 12 months, how often was this fuel or energy source unavailable in the quantity you desired?	Often (more than once a month).....1 Sometimes (4-12 times a year)2 Rarely (less than 4 times a year)3 Never (always available)4 Does not know / unsure99
E36. [If number of cookstoves from E17 > 1] What other fuels and energy sources does this household use in this cookstove or device for cooking food and making drinks? [Mark all that apply]	No others.....0 Alcohol/ethanol.....1 Gasoline/diesel (not in generator)2 Kerosene/paraffin3 Coal/lignite unprocessed.....4

	Coal/lignite briquettes/pellets5 Charcoal unprocessed6 Charcoal briquettes/pellets7 Wood8 Agricultural or crop residue/ grass/ straw/shrubs/corn cobs9 Animal waste/dung10 Processed biomass pellets/briquettes11 Woodchips12 Garbage/plastic13 Sawdust14 Other97
E37. [If number of cookstoves from E17 > 1] Yesterday , how much time was this cookstove used for cooking food, making tea/coffee, and boiling drinking water?	Yes.....1 Does not know / unsure.....99 If yes, then ask Number of hours _____ Number of minutes _____
E38. [If number of cookstoves from E17 > 1] How often did you use the cookstove or cooking device over the last week (last 7 days) for these activities?	Several times each day1 About once per day2 A few times this week3 About once this week4 Does not know / unsure99
E39. [If number of cookstoves from E17 > 1] How often do you normally use the cookstove or cooking device during heatwave for these activities?	Several times each day1 About once per day2 A few times a week3 About once a week4 Does not know / unsure99
E40. [Skip if E18 < 3 or E29 < 3] Why are electric cookstoves (e.g. induction plates) not used as the main cookstoves for cooking food or making drinks? ENUMERATOR: ASK QUESTION WITHOUT TELLING THE OPTIONS AND SELECT ALL OPTIONS THAT ARE MENTIONED.	Electricity is not available1 Electricity is expensive2 Electric cookers are expensive3 The utensils for electric cookers are expensive4 It takes longer to cook food/make drinks5 It is more physically demanding to cook with electricity6 Food tastes better when cooking with other fuels7 Other reasons (specify _____)98
E41_1: What is the main device used by your households to boil water for drinking?	Electric kettle1 Heating rod2 Cookstove3 Other devices (specify _____)98
E41_2: What is the main device used by your households to boil water for showers?	Electric kettle1 Heating rod2 Cookstove3 Other devices (specify _____)98
E41_3: What is the main device used by your households to boil water for baths?	Electric kettle1 Heating rod2 Cookstove3 Other devices (specify _____)98
E42. In winter, are you able to heat up as much water for drinking and showers/ bath as needed?	No0 Yes1

MODULE F FOOD HABIT

Enumerator: Ask this section to the female head/spouse or member who has the most knowledge on food preparation.

FOOD SECURITY <u>READ</u> : Now I would like to ask you some questions about food consumption among your household members.		
	a) YES/ NO If 1 >> ask part b	b) How often did this happen in the last 4 weeks?
F01. During the last 4 weeks, was there a time when you or others in your household were worried you would not have enough food to eat because of a lack of money or other resources?	Yes 1 No..... 0 Don't know/Refused 99	Rarely (1-2 times) 1 Sometimes (3-10 times) 2 Often (>10 times)..... 3 Don't know/ Refused 99
F02. During the last 4 weeks, was there a time when you or others in your household were unable to eat healthy and nutritious food because of a lack of money or other resources?	Yes 1 No..... 0 Don't know/Refused 99	Rarely (1-2 times) 1 Sometimes (3-10 times) 2 Often (>10 times)..... 3 Don't know/ Refused 99
F03. During the last 4 weeks, was there a time when you or others in your household ate only a few kinds of foods because of a lack of money or other resources?	Yes 1 No..... 0 Don't know/Refused 99	Rarely (1-2 times) 1 Sometimes (3-10 times) 2 Often (>10 times)..... 3 Don't know/ Refused 99
F04. During the last 4 weeks, was there a time when you or others in your household had to skip a meal because there was not enough money or other resources to get food?	Yes 1 No..... 0 Don't know/Refused 99	Rarely (1-2 times) 1 Sometimes (3-10 times) 2 Often (>10 times)..... 3 Don't know/ Refused 99
F05. During the last 4 weeks, was there a time when you ate or others in your household less than you thought you should because of a lack of money or other resources?	Yes 1 No..... 0 Don't know/Refused 99	Rarely (1-2 times) 1 Sometimes (3-10 times) 2 Often (>10 times)..... 3 Don't know/ Refused 99
F06. During the last 4 weeks, was there ever no food to eat of any kind in your house because of lack of resources to get food?	Yes 1 No..... 0 Don't know/Refused 99	Rarely (1-2 times) 1 Sometimes (3-10 times) 2 Often (>10 times)..... 3 Don't know/ Refused 99
F07. During the last 4 weeks, did you or others in your household ever go to sleep at night hungry because there was not enough food?	Yes 1 No..... 0 Don't know/Refused 99	Rarely (1-2 times) 1 Sometimes (3-10 times) 2 Often (>10 times)..... 3 Don't know/ Refused 99
F08. During the last 4 weeks, did you or others in your household ever go a whole day and night without eating anything at all because there was not enough food?	Yes 1 No..... 0 Don't know/Refused 99	Rarely (1-2 times) 1 Sometimes (3-10 times) 2 Often (>10 times)..... 3 Don't know/ Refused 99
FOOD CONSUMPTION FREQUENCY <u>READ</u> : Now I would like to ask you about foods that your consumed. Could you please tell me if in the 24 hours you has eaten the following food items and if the food item was prepared at home (if applicable)? By prepared at home, we mean that food that has put together from basic ingredients and cooked yourself (or by someone else in the household) at home		
FOOD item	YES/ NO	
F09. Rice, idli, dosa, poha, naan, kulcha, paratha, or upma?	Not eaten..... 0 Yes, mostly prepared at home using gas cookstove 1 Yes, mostly prepared at home using wood fired stove 2 Yes, mostly prepared at home using electric cookstove 3 Yes, mostly prepared at home using other cookstoves 4 Yes, mostly prepared outside of home 5	
F10. Chapati, roti, dalia, or roasted maize?	Not eaten..... 0 Yes, mostly prepared at home using gas cookstove 1 Yes, mostly prepared at home using wood fired stove 2 Yes, mostly prepared at home using electric cookstove 3 Yes, mostly prepared at home using other cookstoves 4 Yes, mostly prepared outside of home 5	
F11. Pearl millet or finger millet?	Not eaten..... 0 Yes, mostly prepared at home using gas cookstove 1 Yes, mostly prepared at home using wood fired stove 2	

	Yes, mostly prepared at home using electric cookstove 3 Yes, mostly prepared at home using other cookstoves 4 Yes, mostly prepared outside of home 5
F12. Potato, sweet potato, turnip, arum root, tapioca, or raw banana?	Not eaten 0 Yes, mostly prepared at home using gas cookstove 1 Yes, mostly prepared at home using wood fired stove 2 Yes, mostly prepared at home using electric cookstove 3 Yes, mostly prepared at home using other cookstoves 4 Yes, mostly prepared outside of home 5
F13. Daal, sambar, chickpeas, kidney beans, soya, or khichdi?	Not eaten 0 Yes, mostly prepared at home using gas cookstove 1 Yes, mostly prepared at home using wood fired stove 2 Yes, mostly prepared at home using electric cookstove 3 Yes, mostly prepared at home using other cookstoves 4 Yes, mostly prepared outside of home 5
F14. Carrots, or pumpkin that is orange inside?	Not eaten 0 Yes, mostly prepared at home using gas cookstove 1 Yes, mostly prepared at home using wood fired stove 2 Yes, mostly prepared at home using electric cookstove 3 Yes, mostly prepared at home using other cookstoves 4 Yes, mostly prepared outside of home 5
F15. Mustard leaves, spinach, radish leaves, cassava leaves, taro leaves, drumstick leaves, amaranth leaves, or wild greens/other greens?	Not eaten 0 Yes, mostly prepared at home using gas cookstove 1 Yes, mostly prepared at home using wood fired stove 2 Yes, mostly prepared at home using electric cookstove 3 Yes, mostly prepared at home using other cookstoves 4 Yes, mostly prepared outside of home 5
F16. Tomatoes, eggplant, okra/lady finger, French beans, cauliflower, cabbage, or beetroot?	Not eaten 0 Yes 1
F17. Bitter gourd, bottle gourd, pointed gourd, ivy gourd, apple gourd, ridged gourd, or snake gourd?	Not eaten 0 Yes 1
F18. Cucumber, radish, capsicum, German turnip, or drumstick?	Not eaten 0 Yes 1
F19. Papaya, mango, orange musk melon, or apricots?	Not eaten 0 Yes 1
F20. Orange, tangerine, or grapefruit?	Not eaten 0 Yes 1
F21. Ripe banana, apple, pear, watermelon, guava, custard apple, pomegranate, or pineapple?	Not eaten 0 Yes 1
F22. Grapes, kiwi, peaches, jackfruit, chickoo, jamun, palmyra palm fruit, or other wild fruits?	Not eaten 0 Yes 1
F23. Cakes, cream biscuits, biscuits, suji halwa / kesari bath, jalebi, or laddoo?	Not eaten 0 Yes, mostly prepared at home using gas cookstove 1 Yes, mostly prepared at home using wood fired stove 2 Yes, mostly prepared at home using electric cookstove 3 Yes, mostly prepared at home using other cookstoves 4 Yes, mostly prepared outside of home 5
F24. Other mithai, rice pudding, kulfi, ice cream, milkshake, toffees, or chocolates?	Not eaten 0 Yes, mostly prepared at home using gas cookstove 1 Yes, mostly prepared at home using wood fired stove 2 Yes, mostly prepared at home using electric cookstove 3 Yes, mostly prepared at home using other cookstoves 4 Yes, mostly prepared outside of home 5

F25. Paneer or cheese?	Not eaten.....	0
	Yes, mostly prepared at home using gas cookstove	1
	Yes, mostly prepared at home using wood fired stove	2
	Yes, mostly prepared at home using electric cookstove	3
	Yes, mostly prepared at home using other cookstoves	4
	Yes, mostly prepared outside of home	5
F26. Curd, lassi, buttermilk, or raita?	Not eaten.....	0
	Yes, mostly prepared at home using gas cookstove	1
	Yes, mostly prepared at home using wood fired stove	2
	Yes, mostly prepared at home using electric cookstove	3
	Yes, mostly prepared at home using other cookstoves	4
	Yes, mostly prepared outside of home	5
F27. Sausages or salami?	Not eaten.....	0
	Yes, mostly prepared at home using gas cookstove	1
	Yes, mostly prepared at home using wood fired stove	2
	Yes, mostly prepared at home using electric cookstove	3
	Yes, mostly prepared at home using other cookstoves	4
	Yes, mostly prepared outside of home	5
F28. Mutton, beef, lamb, or liver?	Not eaten.....	0
	Yes, mostly prepared at home using gas cookstove	1
	Yes, mostly prepared at home using wood fired stove	2
	Yes, mostly prepared at home using electric cookstove	3
	Yes, mostly prepared at home using other cookstoves	4
	Yes, mostly prepared outside of home	5
F29. Pork or wild meat?	Not eaten.....	0
	Yes, mostly prepared at home using gas cookstove	1
	Yes, mostly prepared at home using wood fired stove	2
	Yes, mostly prepared at home using electric cookstove	3
	Yes, mostly prepared at home using other cookstoves	4
	Yes, mostly prepared outside of home	5
F30. Chicken, duck, or turkey?	Not eaten.....	0
	Yes, mostly prepared at home using gas cookstove	1
	Yes, mostly prepared at home using wood fired stove	2
	Yes, mostly prepared at home using electric cookstove	3
	Yes, mostly prepared at home using other cookstoves	4
	Yes, mostly prepared outside of home	5
F31. Fish, prawn, crab, or seafood?	Not eaten.....	0
	Yes, mostly prepared at home using gas cookstove	1
	Yes, mostly prepared at home using wood fired stove	2
	Yes, mostly prepared at home using electric cookstove	3
	Yes, mostly prepared at home using other cookstoves	4
	Yes, mostly prepared outside of home	5
F32. Peanuts, cashews, almonds, pistachios, walnuts, pumpkin seeds, or sunflower seeds?	Not eaten.....	0
	Yes, mostly prepared at home using gas cookstove	1
	Yes, mostly prepared at home using wood fired stove	2
	Yes, mostly prepared at home using electric cookstove	3
	Yes, mostly prepared at home using other cookstoves	4
	Yes, mostly prepared outside of home	5
F33. Potato chips, namkeen or mixture?	Not eaten.....	0
	Yes, mostly prepared at home using gas cookstove	1
	Yes, mostly prepared at home using wood fired stove	2
	Yes, mostly prepared at home using electric cookstove	3
	Yes, mostly prepared at home using other cookstoves	4
	Yes, mostly prepared outside of home	5
F34. Instant noodles such as Maggi noodles or Wai Wai?	Not eaten.....	0
	Yes, mostly prepared at home using gas cookstove	1
	Yes, mostly prepared at home using wood fired stove	2
	Yes, mostly prepared at home using electric cookstove	3
	Yes, mostly prepared at home using other cookstoves	4
	Yes, mostly prepared outside of home	5

F35. Samosa, pakora, puri, vada, mathri, kachori, murukku, or bonda?	Not eaten..... 0 Yes, mostly prepared at home using gas cookstove 1 Yes, mostly prepared at home using wood fired stove 2 Yes, mostly prepared at home using electric cookstove 3 Yes, mostly prepared at home using other cookstoves 4 Yes, mostly prepared outside of home 5
F36. Milk, flavoured milk, chai with milk, or coffee with milk?	Not eaten..... 0 Yes, mostly prepared at home using gas cookstove 1 Yes, mostly prepared at home using wood fired stove 2 Yes, mostly prepared at home using electric cookstove 3 Yes, mostly prepared at home using other cookstoves 4 Yes, mostly prepared outside of home 5
F37. Tea with sugar, coffee with sugar, milk with sugar, flavoured milk with sugar, Bournevita, Horlicks, or Boost?	Not eaten..... 0 Yes, mostly prepared at home using gas cookstove 1 Yes, mostly prepared at home using wood fired stove 2 Yes, mostly prepared at home using electric cookstove 3 Yes, mostly prepared at home using other cookstoves 4 Yes, mostly prepared outside of home 5
F38. Fruit juice, packet juice such as Rasna or Frooti, sugarcane juice, or nannari sarbath?	Not eaten..... 0 Yes, mostly prepared at home using gas cookstove 1 Yes, mostly prepared at home using wood fired stove 2 Yes, mostly prepared at home using electric cookstove 3 Yes, mostly prepared at home using other cookstoves 4 Yes, mostly prepared outside of home 5
FOOD item	YES/ NO
F39. Soft drinks such as Sprite, Pepsi, Mirinda, or energy drinks?	Not eaten..... 0 Yes..... 1
F40. McDonald's, KFC, Pizza Hut, Domino's, Burger King, or other places that serve pizza or burgers?	Not eaten..... 0 Yes..... 1

MODULE G ENERGY ACCESS AND FOOD CONSUMPTION

Enumerator: Ask this section to the female head/spouse or member who has the most knowledge on food preparation.

FOOD CONSUMPTION HABIT and AVAILABILITY of COOKING FUELS <i>READ:</i> Now I would like to understand how the availability of cooking fuel may influence your household's food consumption pattern. By cooking fuels, we mean any of the fuels used in the cookstoves mentioned in the Module E (such as LPG and electricity).				
		a) YES/ NO If 1 >> ask part b	b) How often did this happen in the last 4 weeks?	
G01: During the last 4 weeks, was there a time when you or others in your household were worried you would not have enough food to eat because of a lack of cooking fuels or high price of cooking fuels?		Yes 1 No 0 Don't know/Refused 99	Rarely (1-2 times) 1 Sometimes (3-10 times) 2 Often (>10 times) 3 Don't know/ Refused 99	
G02: During the last 4 weeks, was there a time when you or others in your household were unable to eat healthy and nutritious food because of a lack of cooking fuels or high price of cooking fuels?		Yes 1 No 0 Don't know/Refused 99	Rarely (1-2 times) 1 Sometimes (3-10 times) 2 Often (>10 times) 3 Don't know/ Refused 99	
G03: During the last 4 weeks, was there a time when you or others in your household ate only a few kinds of foods because of a lack of cooking fuels or high price of cooking fuels?		Yes 1 No 0 Don't know/Refused 99	Rarely (1-2 times) 1 Sometimes (3-10 times) 2 Often (>10 times) 3 Don't know/ Refused 99	
G04: During the last 4 weeks, was there a time when you or others in your household had to skip a meal because of a lack of cooking fuels or high price of cooking fuels?		Yes 1 No 0 Don't know/Refused 99	Rarely (1-2 times) 1 Sometimes (3-10 times) 2 Often (>10 times) 3 Don't know/ Refused 99	
G05: During the last 4 weeks, was there a time when you ate or others in your household less than you thought you should because of a lack of cooking fuels or high price of cooking fuels?		Yes 1 No 0 Don't know/Refused 99	Rarely (1-2 times) 1 Sometimes (3-10 times) 2 Often (>10 times) 3 Don't know/ Refused 99	
FOOD CONSUMPTION RESPONSES to CHANGES in COOKING FUEL AVAILABILITY <i>READ:</i> In the following questions, I would like you to imagine that there have been some changes in the price or availability of cooking fuels. Please tell me if your household food consumption will change under these scenarios.				
		G06: [If E04 = 1 – electricity available in the household] If the prices of other fuels and food have not changed and the price of electricity per unit doubled,	G07: [If E18/E29 = 3/4/5 - gas stove as one of the listed cookstoves] If the price of ingredients has not changed and the price of gas per unit doubled,	G09: [If E19/E25/E30/E36= 8 - wood is used in the cookstoves] If wood for cooking is less available or more difficult to collect
Food cooked at home:				
1	Rice	Consume less 1 No change 2 Consume more 3	Consume less 1 No change 2 Consume more 3	Consume less 1 No change 2 Consume more 3
2	Roti	Consume less 1 No change 2 Consume more 3	Consume less 1 No change 2 Consume more 3	Consume less 1 No change 2 Consume more 3
3	Vegetables	Consume less 1 No change 2 Consume more 3	Consume less 1 No change 2 Consume more 3	Consume less 1 No change 2 Consume more 3
4	Fruits	Consume less 1 No change 2 Consume more 3	Consume less 1 No change 2 Consume more 3	Consume less 1 No change 2 Consume more 3
5	Meat and fish	Consume less 1 No change 2 Consume more 3	Consume less 1 No change 2 Consume more 3	Consume less 1 No change 2 Consume more 3
6	Pulses	Consume less 1 No change 2 Consume more 3	Consume less 1 No change 2 Consume more 3	Consume less 1 No change 2 Consume more 3
7	Milk, cheese and eggs	Consume less 1 No change 2 Consume more 3	Consume less 1 No change 2 Consume more 3	Consume less 1 No change 2 Consume more 3
Food made outside of home				

8	Sweet snacks (e.g. confectionary, sweet biscuits)	Consume less 1 No change 2 Consume more 3	Consume less 1 No change 2 Consume more 3	Consume less 1 No change 2 Consume more 3
9	Salty snacks	Consume less 1 No change 2 Consume more 3	Consume less 1 No change 2 Consume more 3	Consume less 1 No change 2 Consume more 3
10	Instant noodles	Consume less 1 No change 2 Consume more 3	Consume less 1 No change 2 Consume more 3	Consume less 1 No change 2 Consume more 3
11	Restaurants or fast food meals (including takeaways)	Consume less 1 No change 2 Consume more 3	Consume less 1 No change 2 Consume more 3	Consume less 1 No change 2 Consume more 3