Energy Access Survey

Introduction to the Household Head

[Interviewer shows ID card to the respondent]

I work with MORSEL, an organization based in Lucknow that conducts surveys in India. Your household has been selected to participate in a short survey. The survey is a Council on Energy, Environment and Water / Columbia University study and is led by Dr. Johannes Urpelainen. It will take around 45 minutes. Would you like to participate?

1.	Did the household head agree to be interviewed?	1 Yes	0 No
2.	If no, record the reason:		

A. MetaData

	3.	Household ID			_
	4.	ID and Name of Interviewer	ID	NAME _	
	5.	ID and Name of Supervisor	ID	NAME _	
	6.	Date of Interview			
	7.	Interview start time			_ Interview end time
					
Ged	ogra	phic Information			
	8.	State			
	9.	District			
	10.	Block			
	11.	Village			
	12.	Habitation [ASK VILLAGE HEAD IF NEED	ED]		
	13.	Full Address			
	14.	Mobile Contact Number			
	15.	GPS Latitude			
	16.	GPS Longitude			

B. Household Head and Roster

Obtain the following information from the household head. If the household head is NOT available, interview another <u>adult</u> member of the household.

17.	Relationship to hou	sehold head				2 Spouse 4 Son/Daughter	
18.	Name					_	
19.	Age					[YEARS]	
20.	Gender			1 Male		0 Female	
21.	Native language					_	
22.	Read and write nati	ive language'	?		1 Yes	0 No	
23.	Level of education	of the househ	nold head				
	1 No formal school	ing	2 Up to 5 th stand	dard	3 Up to	10 th standard	
	4 12 th standard or diploma 5 Graduate an			above			
24.	Religion		1 Hindu	2 Musli	m	3 Other	
25.	Government Caste		1 Scheduled Ca 3 Other Backwa 5 Others			2 Scheduled Tribe ral 6 No Caste	
26.	Which ration card d	loes your hou	sehold have?				
	0 None 1 A	NPL	2 BPL	3 Antyc	odaya		
27.	Number of adults liv	ving in this ho	ousehold permar	nently (a	s of now)[NU	IMBER]
28.	How many member	rs in the famil	y have a voter II	O card?		[NUMBER]	
29.	Number of children [NUMBER]	(0-18 years)	permanently livi	ng in the	e househ	old (as of now)	
30.	How many children	are currently	studying?			[NU	IMBER]

C. Economic Activity

31.	What is the primary source of in	come in your family?				
	1 Agriculture on own lar 4 Salaried job 7 Daily laborer	nd 2 Cultivation on lease 5 Cattle rearing 8 Other			6 Own bu	usiness
32.	How much is your expenditure of [RUPEES]	on household needs in a	typical r	month?_		
33.	How many rupees did your house	sehold save last year?				[RUPEES]
	33.1. If your household did not s	•	lo you ne	eed to bo	orrow in a	typical year?
34.	Does anyone in your household	have a bank account?		1 Yes	C) No
35.	Is your household currently inde	ebted?		1 Yes	C) No
	35.1 IF YES : How much in total	?			RI	JPEES
	35.2 IF YES : What is the month	ly interest rate of your la	rgest loa	an?	PE	ERCENT
36.	How much land does your hous [UNIT]	ehold own?			[0 if none]	
37.	How many cattle and livestock of	do you own?				
	COWS	BUFFALO	ES		FOW	/LS/CHICKEN
	COW CALVES	BUFFLOE	S CALV	ES		
	GOATS	OTHER AI	NIMALS			
38.	Who in your household makes of	decisions on purchase of	f durable	goods?		
	1 Male head of household	2 Female head of hous	ehold	3 Jointl	y 4	Other, specify
39.	Is the house you live in <i>pucca</i> ? Kaccha		1 Pucc	a	2 Mixed	3
40.	Do you own your house?			1 Yes	C) No
41.	Does your household have a toi	let?		1 Yes	C) No
42.	Does your household have pipe	d water?	1 Yes		0 No	
43.	How many rooms does your hou	use have?			[NU	JMBER]
44.	How many beds does your house	sehold own?			[NL	JMBER]
45.	How many tables does your hou	usehold own?			[NL	JMBER]
46.	How many chairs does your hou	usehold own?			[NL	JMBER]
47.	How many bicycles does your h	ousehold own?			[NL	JMBER]
48.	How many motorcycles does yo	ur household own?			[NL	JMBER]

49.	How many	pressure co	ookers does	your household ow	n?	[NUMBER]
(**Only	y for those H	Hs who are	indulge in ag	riculture)		
50.	Do you use	pumps for	irrigation?	1 Yes	0 No (skip	o to 50.2)
		50.1 . \	What type of	pump?		
			el pump	2 Electric pur	mp 3	Both diesel and electric
	IF NO:					
	50.2. Would	d you like to	use an elec	tric pump? 1 Ye	s 0	No
51.	How satisfic	ed are you	with the curre	ent situation of elec	tricity for you	r agriculture business?
		1 Uns	atisfied	2 Neutral	3	Satisfied
(** for a	all Househo	olds)				
52.	Do you or a	any other m	ember of you	ır family running a	business acti	vity (other than agriculture)?
	1 Yes	0 No (Skip to53)			
	IF YES					
	52.1. Do you	u use electr	icity for your	business? 1 Yes	2. No	(skip to 52.1.2)
	IF YES	S				
	52.1.1.	How satisf	fied are you v	with the current situ	uation of elect	ricity for your business?
		1 Unsatisf	ied	2 Neutral	3	Satisfied
	IF NO					
	52.1.2.	Can or has	-	ontributed to increa	asing your inc	come from your primary
		1 Yes	0 No			
(**only	to househo	olds who in	idulge in ag	riculture and no o	ther busines	ss activity)
53.	Would you	be intereste	ed in running	a business activity	(other than a	agriculture) in future?
	1 Yes	0 No (Skip to55)			
54.	How import	ant would b	e electricity	for your future busi	ness activity?	>
	1.		•	newhat important	•	

1. Lighting and Electricity Situation

	55.	Do you use gri	d electricit	y for lighting?	1 Yes	0	No (Skip to 56)	
	IF YES	:						
	55.1. H	low many years	ago was y	our house co	nnected t	to the grid?		
	[/EAR AGO] [<i>NA</i>	if house a	already had el	ectricity v	vhen the re	spondent moved in; DK if	:
	the res	pondent doesn't	remembe	er or doesn't ki	now]			
	55.2. V	hat was the cor	nnection fe	ee?				
		[RUPEES] [<i>NA</i> i dent doesn't ren		•	•	hen the res	pondent moved in; DK if	he
	55.3. V	Vhat is your total	electricity	spending per	month?	[RU	PEES/MONTH]	
	55.4. D	o you have a m	eter?		1 Yes	0	No	
	55.5. D	o you pay a fixe	d or varia	ble amount me	onthly?			
	56.	0 Variable Have you hear	1 Fixed d about m		Payment	1 Yes	0 No	
[*** ENUM	ERATO	R: READ THE T	EXT BEL	OW REGARD	LESS O	F ANSWEF	R, SHOW PICTURE***]	
	can be	produced from	solar ener cal users.	gy, micro-hydi	ro, diesel	or some o	the local level. Electricity ther source. The electricit ctricity supply compared t	У
	57. be elec	If the monthly betrified through a				•	ou prefer your household id?	to
		0 Regular grid		1 Micro-grid		DK Don't	know	
	58.	Do you use mid	cro-grid fo	r lighting?		1 Yes	0 No (Skip to 59)	
	IF YES	:						
	58.1. Is	it powered thro	ugh:					
		Solar Biomass gasifica	ation				Diesel Micro-hydro	
	58.2. W	/hat is your total _ [RUPEES/MON		for micro-grid	l electrici	ty per mont	h?	
	58.3. D	o you have a m	eter?	1 Yes	0 No			
	58.4. D	o you pay a fixe	d or varia	ble amount me	onthly?			
		1 Fixed	0 Variab	le 2 No Pa	yment			
	58.5. H	low much did yo	u have to	pay upfront fo	r the mic	ro grid con	nection?	

	[RUPEES] [NA if house already had electricity wher respondent doesn't remember or doesn't know]	n the respondent moved in; DK if the
	59. Have you heard about solar home systems? [*** ENUMERATOR: READ THE TEXT BELOW REGARI PICTURE***]	1 Yes 0 No DLESS OF ANSWER, SHOW
	Sunlight can be used to produce electricity through solar electricity only for your household. The energy from sunligare typically installed on a house's rooftop, and is then traelectricity can be stored in batteries and then be used who 3-5 years and recurring costs are approximately zero. The guarantee.	ght is captured by solar panels, which ansformed into electricity. This enever you want. The system life is
s:	S:	
ı	Do you use solar home system or solar lanterns for lighting?	
	1 Solar home system 2 Solar lantern 3 both	4 Neither (Skip to 61)
	IF 1, 2, or 3:	
(60.1. How many hours of lighting per day do you get from it?	P[HOURS/DAY]
(60.2. Is it rented or owned? 0 Rented	1 Owned
	IF RENTED:	
(60.3. How many rupees does it cost you per month?	[RUPEES/MONTH]
	IF OWNED:	
(60.4. How many rupees did it cost you? [RU	JPEES]
(60.5. How much subsidy did you receive? [RU	JPEES]
(60.6. What is the loan did you take? [RU	JPEES]
(60.7. What is the term of the loan? [Mo	ONTHS]
(60.8. What is the per month installment? [Ru	upees/month]
	Do you use kerosene lamps for lighting? 1 Yes IF YES:	0 No (Skip to 62)
(61.1. How many kerosene wick lamps do you use?	[LAMPS]
(61.2. How many kerosene lanterns do you use?	[LANTERNS]
(61.3 How many hours a day do you use kerosene lamps for	lighting?
	[HOURS/DAY] (**cumulative sum**)	
(61.4. How many liters of kerosene do you buy from PDS per	month? [LITERS/MONTH]
	61.5. What is the price you pay for PDS kerosene? [DO NOT USE ZERO HERE – CODE "DK" IF DON'T KNOW	
	61.6. How many liters of kerosene do you buy from the mark [LITERS/MOMTH]	tet per month?

IF YES: 60

	What is the price you pay t OT USE ZERO HERE – 0			[RUI	PEES/L	LITER]	
- 61.8. I	n your opinion, do kerosei	ne fumes have a	n effect on your	health?	1 Yes	0 No	2 DK
	Do you use kerosene for a b, Skip to 62)	nything other tha	an lighting?		1 Yes	0 No	
IF YE	S :						
61.10	What for? SPECIFY [ON	LY NON-LIGHTI	NG USAGE]				
	How many liters/month de SUGGESTIONS]			NDENT /	ANSWE	ER;	DON'T
[ALL HOUSE	HOLDS]						
62	Do you use any other	er source for dai	ly lighting needs	regularly	?		
1	Diesel generator [SPECIFY]:	-	•	3 Others	3		
63	. What do you use artificia	al lighting for?					
	64.1 Home business		1 Yes		0 No		
	64.2 Meeting with friend 63.3 Other:	s and family	1 Yes	_	0 No		
64	For how many hours art studying, etc.) on an ave	erage per day? [Insert values in	` •		•	
	Adults	[0-24 HOURS F	PER ADULT]				
65	. How many hours per da HOURS]	y do you listen to	o the radio?				[0-24
66	. How many hours per da HOURS]	ay do you watch	television?				[0-24
67	. Do you own a mobile ph	ione?	1 Yes	0 No (SI	kip to 6	88)	
	IF YES:						
	67.1 How many mobile p [NUMBER]	hones does you	r household hav	e?			
	67.2 How much per mor		or charging the p	hone bat	tery?		
68	. [*** ENUMERATOR: FIL	L IN WITHOUT	ASKING RESP	ONDENT	***]		

[*** Does the household have any electricity (whether from the grid, from a solar household system, from a diesel generator, or from a micro grid) ***] 1 Yes 0 No (IF "YES", GO TO 69 (Electrified Households); IF "NO", GO TO 79 (Non-Grid Households) *** Electrified Households [HOUSEHOLDS THAT HAVE GRID, SOLAR HOUSEHOLD SYSTEM, DIESEL GENERATOR, OR MICRO GRID] **69.** How many hours a day is electricity usually available? [HOURS/DAY] 70. For how many hours is electricity usually available between sunset and midnight (till 12 o' clock)? _____ [0 - 6 HOURS] 71. How many days in the last month has there been no power throughout the day? ____ [0-30 DAYS] 72. How many days in a month have you experienced that electric equipment suffered because of voltage fluctuation? _____ [0-30 DAYS] 73. How many days a month have you experienced that voltage was too low to run _____[0-30 DAYS] appliances? 74. Whom do you currently pay for your primary source of electricity? 0 Representative of electricity department 1 Village energy committee / Village head 2 Neighbor or relative 3 No one / no need to pay 4 Don't know where to pay 5 Others (SPECIFY) _____ 75. How many of the following items/ appliances do you USE? 75.1. Incandescent bulbs? [NUMBER] 75.2. CFL bulbs __ [NUMBER] 75.3. LED lights? [NUMBER] 75.4. Tube light? ____ [NUMBER] 75.5. Fans? __ [NUMBER] 75.6. Electric iron? [NUMBER] 75.7. Refrigerator? ____ [NUMBER] 75.8. Television? ____ [NUMBER] 75.9. Electric Radio/Music System? ____ [NUMBER] ____ [NUMBER] 75.10. Cooler? ____ [NUMBER] 75.11. Washing machine? 75.12. Electric stove? [NUMBER] __ [NUMBER] 75.13. Inverter?

•	75.14. Electric V	Vater Pump	[NUMBER]		
	75.15. Others? _	· · · · · · · · · · · · · · · · · · ·	[NUMBER		
	75.16. Others? _		[NUMBER]		
		owing appliances would imited supply or poor qu	•		unable to use <u>only</u>
((**If there is go	od electricity available	, code NA and	move to	77**)
•	76.1. Fans?		1 Yes	0 No	2 Already Using
•	76.2. Electric iro	n?	1 Yes	0 No	2 Already Using
•	76.3. Refrigerato	or?	1 Yes	0 No	2 Already Using
•	76.4. Television	?	1 Yes	0 No	2 Already Using
	76.5. <mark>Electric Ra</mark>	idio/Music System?	1 Yes	0 No	2 Already Using
	76.6. Cooler?		1 Yes	0 No	2 Already Using
	76.7. AC?		1 Yes	0 No	2 Already Using
	76.8. Electric sto	ove?	1 Yes	0 No	2 Already Using
•	76.9. Computer/	Laptop	1 Yes	0 No	2 Already Using
	76.10. Washing	machine?	1 Yes	0 No	2 Already Using
	76.11. Electric V	Vater Pump	1 Yes	0 No	2 Already Using
	76.12. Other				
	76.13. Other				
IF ANY OF AL	BOVE IS YES:				
	•	o use all the appliances for this overall usage?	you desire as st		ove, how much would you EES/MONTH]
77.	Generally, how s	satisfied are you with the	e electricity situa	tion in yo	our household?
1 Unsati	sfied	2 Neutral	3 Satisfied		
IF "1 UN	ISATISFIED"				
78.	Why are you uns	satisfied? [CHECK ALL	THAT APPLY]		
,	78.1 Too expens	sive to consume		1 Yes	0 No
,	78.2 Not availab	le when you need it		1 Yes	0 No
,	78.3 Poor quality	(voltage fluctuations)		1 Yes	0 No
,	78.4 Poor mainte	enance and repair servi	ces	1 Yes	0 No
,	78.5 Other, SPE	CIFY:			
:	*** [NON-ELEC	TRIFIED HOUSEHOLD	S] ***		

79.	If you had grid electricity, what we THE FIRST THREE RESPONSE MARK YES/NO]	-					
	79.1. Lighting?	1 Yes	0 No				
	79.2. Fans?	1 Yes	0 No				
	79.3. Electric iron?	1 Yes	0 No				
	79.4. Refrigerator?	1 Yes	0 No				
	79.5. Television?	1 Yes	0 No				
	79.6. Radio?	1 Yes	0 No				
	79.7. Cooler?	1 Yes	0 No				
	79.8. AC?	1 Yes	0 No				
	79.9. Electric stove?	1 Yes	0 No				
	79.10. Computer/Laptop	1 Yes	0 No				
	79.11. Washing machine?	1 Yes	0 No				
	79.12 Water Pump	1 Yes	0 No				
	79.13. Other:	[SPECIFY]					
	Up to how much would you be wi [RUPEES/MONTH] ALL NON-GRID HOUSEHOLDS]		onth for such usa	ge?			
	81. Is grid electricity available	e in your habitation?			1 Yes	0 No	
	If it is available, then why	don't you have grid	electricity?				
	81.1. Is the connection to	oo expensive?			1 Yes	0 No	
	81.2. Is the monthly bill to	oo expensive?			1 Yes	0 No	
	81.3. Is it too unreliable?						
	81.4. Don't know how to	get or whom to ask?			1 Yes	0 No	
	81.5. Other:	[SPEC	CIFY]				
	82. Are you interested in hav	ring grid electricity?		1 Yes		0 No	
	82.1 What amount are you willing to pay to get electricity connection?						

2. Lighting and Electricity Satisfaction

83.	What is the primary sou	urce of lighting in	your HH	1?		
	1 Grid electricity 4 Solar home system o	2 Kerosene lam r solar lantern 5	•			•
84.	This primary lighting so	urce that you are	e using:			
	84.1. Is it adequate to u	ıse?		1 Yes	0 No	
	84.2. Is it reliable?			1 Yes	0 No	
	84.3. Is it expensive to	use?		1 Yes	0 No	
	84.4. Is it safe to use?			1 Yes	0 No	
85.	So, overall how satisfie	d are you with th	e primar	y source	e of lighti	ng in your home?
	1 Unsatisfied	2 Neutral		3 Satis	fied	
86.	Compared to 5 years a	go, has your sati	sfaction	about lig	hting in	your home:
	1 Decreased	2 Remained the	e same	3 Incre	ased	
87.	How important is the pr for you?	ovision of electri	city at co	ommunit	y places	like schools or chaupal
	1 Very important	2 Neutral	3 Not in	mportant		99 Don't know
88.	Generally, how satisfied schools/chaupals?	d are you with the	e electrio	city at co	mmunity	places like
	1 Unsatisfied	2 Neutral	3 Satis	fied		99 Don't know
89.	How many rupees wou electricity?	ld you be willing _[RUPEES/MON		provide	5 hours	per day of community
90.	How important is street	lighting for you?				
	1 Very important	2 Neutral	3 Not in	mportant	:	99 Don't know
91.	How many rupees wou	ld you be willing	to pay to	provide	street li	ghting in your habitation?
	[RUPEES/	MONTH]				
92.	Would (or does) street	lighting increase	safety ir	n your ha	abitation	?
	1 Yes 0 No	99 Don	't know			
93.	Generally, how satisfied	d are you with the	e village	's street	lighting?	
	1 Unsatisfied	2 Neutral		3 Satist	fied	

94.	Rank the following in order of importance for you [1-4, WITH 1 HIGHEST AND 4 LOWEST]:					
	942. Street light 943. Electricity	tion of household hting / for productive u ation of communi	ısage			
95.	Do you think pe 1 Yes	ople in your villa 0 No	ge steal electricit 99 Don't know	y?	999 Not applicable/not available	
96.	Do you think ste	ealing electricity	is illegal?			
	1 Yes	0 No	99 Don't know		999 Not applicable/not available	
97.	Do you think su 1 Yes	ch stealing shou 0 No	ld be stopped? 99 Don't know		999 Not applicable/not available	
98.	as per your nee	d and would allo	w you to get artif	icial ligh	and for electricity that is available at for 12 hours a day, use a fan [RUPEES PER MONTH]	

3. Cooking Situation

[***ENUMERATOR: FOR THIS SECTION, PLEASE INVITE THE HOUSEHOLD'S PRIMARY COOK TO JOIN THE INTERVIEW EVEN IF NOT HOUSEHOLD HEAD***]

99.	[***DON'T	ASK, FILL YOURSEL	_F***] Able to interact v	with the prima	ary cook?					
	1 Yes	0 No								
100.	How many	meals are cooked in	your house every day?	?	[NUMBER]					
101.	How much	time is spent in cook	ing per day?		[HOURS/DAY]					
102.	Do you us	e domestic gas (LPG)	for cooking?	1 Yes	0 No (Skip to 105)					
	IF YES:									
	102.1Hd AG		d your house begin to	use LPG?	[YEARS					
		ow much did it cost to JPEES]	install the LPG conne	ction?						
	103.3.	What all do you cook	using LPG?							
	1	Only chapattis/roti	2 Only vegetables	and lentils	3 Rice					
	4	Only tea/snacks 5 mi	lk boiling 6 water bo	iling 7. Othe	er (SPECIFY)					
	103.4Hd	ow many large LPG cy	ylinders do you use in a	a year?	[NUMBER/YEAR					
		ow many large cylinde JMBER/YEAR]	ers do you get from aut	horized distri	ibutors?					
	103.6	How many large	cylinders do you get fr	om market?	[NUMBER/YEAR					
	103.7 [NU	How many small JMBER/YEAR]	LPG cylinders do you	use in a yea	r?					
	103.8 How many small cylinders do you get from authorized distributors?[NUMBER/YEAR]									
	103.9	How many small cyli	nders you get from ma	rket?	[NUMBER/YEAR]					
			rge cylinder of LPG fro f the respondent does							
			nall cylinder of LPG fro the respondent does r							
			rge cylinder of LPG fro 'T KNOW OR IF TAKE		•					
	RE		nall cylinder of LPG fro 'T KNOW OR IF TAKE		-					
	_	-	cylinder delivered at yo	our door step	? 1 Yes 0 No					

IF NO:					
103.15 What LPG?	is the one-way distance	e in kilomet	ers your	househ	old typically travels to get
	w satisfied are you with atisfied 2 Ne	i the LPG si eutral	ituation i	n your h 3 Satis	
IF UNSATISFIED					
104.1 Why a	are you unsatisfied?				
1 Too expensive t	o consume	1 Yes		0 No	
2 Poor availability		1 Yes		0 No	
3 Too far to procu	re 1 Ye	es	0 No		
4 Poor maintenan	ce services	1 Yes		0 No	
	/ :				
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
IF NO [TO QUESTION	N 1031:				
105.Why don't you have L	-				
105.1. Is it not availab	le or too far from your v	village to ob	tain?	1 Yes	0 No
105.2. Is it too expens	ive to install an LPG co	onnection?		1 Yes	0 No
105.3. Is the monthly	expense of LPG too ex	pensive?		1 Yes	0 No
105.4. Don't know how	v to get or whom to ask	< ?		1 Yes	0 No
105.5 Other, SPECITY	/ :				
106. Are you interested in	getting LPG?			1 Yes	0 No (skip to 109)
107. How much would you	be willing to pay for LP	G connection	on?		[RUPEES]
108.How much would you needs? [RUP	be willing to pay on mo EES/MONTH]	onthly basis	for enou	ugh LPG	for your entire cooking
109.Do you use firewood a	and chips for cooking?	1 Yes	0 No (S	Skip to 1	113)
IF YES:					
109.1. Typical [KG/WEEK]	lly, how much firewood	do you use	per we	ek for co	ooking?
Of this:					
109.2. How much is co	ollected by household r	members?		[KC	3]
109.3. How much is be	rought from the market	?		[KC	3]
110.What is your collection	n frequency for firewood	d?			
1 Daily 4 A few times a year	2 A few times a wee 5 Not Applicable/Do			times a	a month

IF DAILY OR WEEKLY:		
111. How much time do you spend each tir	ne you go for colle	ction?HOURS/collection
111.1 What is the one-way distance in F	kilometers your ho	usehold typically travels to:
111.1.1. Collect firewo	ood and chips?	[KM]
111.1.2. Buy firewood	and chips?	[KM]
112. How much does a KG of firewood and [If the respondent does not know the a	•	[RUPEES/KG]
113.Do you use dung cakes for cooking? IF YES:	1 Yes	0 No (Skip to 114)
113.1. Typically, how many dung cake	s do you use per v	veek? [PIECES/ WEEK]
113.2. If you bought all of this in marke [RUPEES/WEEK]	et, how much would	d it cost you?
Of this weekly usage:		
113.3. How many are prepared by hou	sehold members?	[PIECES/ WEEK]
113.4. How many are bought from the	market?	[PIECES/ WEEK]
114.Do you use agro residue for cooking? IF YES:	1 Yes	0 No (Skip to 115)
114.1. Typically, how much agro residu	ue do you use per	year? [KG/YEAR]
114.2. How much does a KG of agro re	esidue cost?	[RUPEES/KG]
115. Do you use any other fuel for cooking?	1 Yes, SPECIF	/ 0 No
115.1 How much do you use of this fue	el in a month?	[UNITS/WEEK]
115.2 How much do you spend on this	fuel in a month? _	[RUPEES/ WEEK]
FOR ALL HOUSEHOLDS		
116.Does your household have the following	ng items and how r	many?
		0.41

116. Does your household have the following items and how many?									
116.1. 3-stone cookstove?	Indo	or:	Outdoor:						
116.2. Mud cookstove?	Indo	or:	Outdoor:						
116.3. Improved biomass cookstove?	Indo	or:	Outdoor: Por	table:					
116.4. Kerosene stove?	Porta	able:							
116.5. LPG gas stove?	Porta	Portable:							
116.6. Electric stove?	Porta	Portable:							
117. Where do you usually cook?	0 indoor	1 outdo	or 2 mixed						

4. Cooking Satisfaction

118.WI	nat is your primary c	ooking fuel?							
1 F	Firewood and chips	2 Dung cakes	3 LPG		4 Othe	r		[Specify
	enerally, how satisfie usehold?	d are you with th	e availal	oility of t	his prim	ary cook	ing fuel to	your	
1 l	Jnsatisfied	2 Neutral			3 Satis	fied			
F Unsatis	fied:								
11	9.1. Are you cooking	less than you w	ant beca	iuse of p	oor ava	ilability c	of cooking	fuel?	
	1 Yes	0 No							
120.Cc	empared to 5 years a	igo, has the avai	lability of	this fue	l:				
1 [Decreased	2 Remained th	e same		3 Incre	ased			
121.Th	e primary arrangeme	ent of cooking th	at you us	se:					
	Produces exce	essive smoke?		1 Yes		0 No			
	Is too expensiv	ve to use?	1 Yes		0 No				
	Is too dangero	us to use?		1 Yes		0 No			
	Is too time con	suming?		1 Yes		0 No			
	Has good qual	ity of cooking?		1 Yes		0 No			
	Is too difficult to Others:	o use?		1 Yes		0 No			
122.So	o, overall how satisfie					ing arrar	ngement?		
	1 Unsatisfied	2 Neutral	3 Satis	fied					
123.Dc	you think there is a	n impact on your	health f	rom the	cooksto	ve that y	ou use?	1 Yes	0 No
	onsidering the conve oking is:	nience of cookin	g, compa	ared to tr	aditiona	l cooksto	ove, the L	.PG-bas	ed
	1 Better	2 Simil	ar		3 Wors	se	99 Don'	t know	
125. C c	onsidering the impact	t on health. com	pared to	tradition	al cooks	stove, the	e LPG-ba	sed coo	kina is:
	1 Better	2 Simil			3 Wors		99 Don'		3
126 Ua				tovos					
	ve you heard about YES:	improved bioma	SS COOKS	loves?	1 165	0 140 (3	Skip to 12	29)	
ir		od to traditional a	ookotov	o thoi∽	nroved	hiomaca	, cooksts	o io:	
	•	ed to traditional o			ipioved				
	1 Bette	er	2 Simil	ar		3 Wors	se	99 Don'	t know

127. Have you ever use	d an improved biom	ass cookstove in	this hou	sehold?		
1 Yes 0 No (IF No), Skip to 129)					
IF YES:						
127.1. Do you still ເ	use it?		1 Yes	0 No		
127.2 When did yo	u first use it?					[YEARS AGO]
127.3. What was th	e cost of your impro	oved biomass co	okstove?		[RUPE	ES]
127.4. What is the	type of clean cookst	tove?				
0 Basic sto	ve with chimney	1 Rocket type	2 Gasit	fication-l	pased	
127.5. Who is the p	rovider of the impro	oved biomass co	okstove?			
0 Governm	ent 1 NG0	D 2 Priva	ate vendo	or		
127.6. How satisfie	d are you with the p	erformance of yo	our impro	ved bio	mass co	okstove?
1 Unsatisfie	ed 2 Neu	tral 3 Satis	sfied			
IF 1 ("UNSATISFIE	D"; OTHERWISE	GO TO NEXT Q	UESTIO	V):		
127.7. Too difficult	to use?			1 Yes	0 No	
127.8. Too dangero	ous to use?			1 Yes	0 No	
127.9. Too costly?				1 Yes	0 No	
127.10. Breakdown	frequently?			1 Yes	0 No	
127.11. Poor maint	enance service?			1 Yes	0 No	
127.12. Other. SPE	CIFY:					
[KG/WE TRADITIONAL CH	EEK]? [PUT NEGAT ULHA]	TIVE VALUES IF	MORE F	UEL CO	ONSUMI	ED THAN
IF NO: [*** ENUMI	ERATOR: READ TO	O THE RESPON	DENT **	*]		
Improved biomass efficiently than tra					burn bi	omass more
129. Would you conside	r switching to impro	ved biomass coo	okstove?	1 Yes	0 No	
IF YES:						
129.1. At what	price would you be	willing to buy on	e?		[R	UPEES]
Biogas Plants [FOR ALL I	HOUSEHOLDS]					
130. Have you heard ab	out biogas with pipe	ed supply for coo	king?			
1 Yes 0 N	lo (IF NO, Skip to 1	134)				
IF YES:						
130.1. Compared to	o traditional cooksto	ve, the biogas-b	ased coo	king is:		
1 E	Better	2 Similar		3 Wors	se	99 Don't know
131.Have you ever use	d biogas for cooking	g in your househo	old?			
1 Yes 0 No (IF No), Skip to 134)					

	IF YES:						
	131.1. Do you	still use it?			1 \	Yes	0 No
	131.2. When d	id you first use it	?		[Y	EAR	S AGO
	131.3. What kind of plant is/wa	s it?	0 Individual	1 Com	munity level		
	131.4. How satisfied are you w	ith your biogas p	lant?				
	1 Unsatisfied	2 Neutral	3 Satisfied				
	IF 1 ("UNSATISFIED"):						
	131.5. Too difficult to use?			1 Yes	0 No		
	131.6. Too dangerous to use?			1 Yes	0 No		
	131.7. Too costly?			1 Yes	0 No		
	131.8. Breakdown frequently?			1 Yes	0 No		
	131.9. Poor maintenance servi	ce?		1 Yes	0 No		
	131.10. Other. SPECIFY:						
132.	Who is the provider of the biog	as plant? 0 Gove	ernment 1 NGO	2 Priva	ate vendor		
133.	What was the upfront cost of th	e biogas plant? ַ	[R	JPEES]			
	IF NO:						
	[*** ENUMERATOR READ TO	THE RESPOND	ENT, SHOW IM	4 <i>GE</i> ***	7		
!	Biogas plants use organic pr gas is similar to LPG and is p organic fertilizer which is uso plants need daily attention in	oiped directly to ed to improve th	your house. The health of the	ese pla soil in f	nts also pro ields. Howe	oduc ever,	e
	Would you consider switching t		-		ianure upte	inc.	
	IF YES:	o biogas cooking	,. 1163	0 140			
	134.1 . At what price would yo	ou be willing to in	stall one?		[RUPE	ES]	

5. Policy Preference

	n your village?								
1 Government									
2 Private corporations	2 Private corporations								
3 Non-governmental organizations									
4 Other, specify									
136.If you got reliable grid electricity, would you be willing to pay same rat your state? 1 Yes 0 No	es as urban population in								
137.Please order the importance of government support to households or RANK THE SELECTION 1-5, WITH 1 MOST IMPORTANT AND 5 LE		ist.							
LPG [1-5]									
Electricity [1-5]									
Kerosene [1-5]									
Clean water [1-5]									
Education [1-5]									
LIGHTING									
138. Solar lanterns are portable devices that can be charged in the sun an you support government subsidies for solar lanterns, if they are funde									
kerosene by the same amount? 1 Yes 0 No	a by reducing subsidy for								
•									
1 Yes 0 No									
1 Yes 0 No 139. Have you heard of the Rajiv Gandhi GrameenVidyutikaranYojana (Ranges 0 No (Skip to 140)	GGVY) program?								
1 Yes 0 No 139. Have you heard of the Rajiv Gandhi GrameenVidyutikaranYojana (Ri 1 Yes 0 No (Skip to 140) IF YES: 139.1. Has your household been electrified under RGGVY? 1	GGVY) program?								
1 Yes 0 No 139. Have you heard of the Rajiv Gandhi GrameenVidyutikaranYojana (Rough 1 Yes 0 No (Skip to 140) IF YES: 139.1. Has your household been electrified under RGGVY? 1 Don't know	GGVY) program?	0 No							
1 Yes 0 No 139. Have you heard of the Rajiv Gandhi GrameenVidyutikaranYojana (Rough 1 Yes 0 No (Skip to 140) IF YES: 139.1. Has your household been electrified under RGGVY? 1 Don't know IF NO: Why not?	GGVY) program? Yes 0 No 99	0 No 0 No							
1 Yes 0 No 139. Have you heard of the Rajiv Gandhi GrameenVidyutikaranYojana (Rough 1 Yes 0 No (Skip to 140) IF YES: 139.1. Has your household been electrified under RGGVY? 1 Don't know IF NO: Why not? 139.2. No RGGVY in my village	GGVY) program? Yes 0 No 99 1 Yes (Skip to 140)								
1 Yes 0 No 139. Have you heard of the Rajiv Gandhi GrameenVidyutikaranYojana (Rough 1 Yes 0 No (Skip to 140) IF YES: 139.1. Has your household been electrified under RGGVY? 1 Don't know IF NO: Why not? 139.2. No RGGVY in my village 139.3. Already had electricity	GGVY) program? Yes 0 No 99 1 Yes (Skip to 140) 1 Yes (Skip to 140)	0 No							

KE	ROSENE QUESTIONS(FOR ALL HOUSEHOLDS)
	140. What is your monthly quota for PDS kerosene? [LITERS/MONTH] [**IF RESPONDENT DOESN'T KNOW MARK "DK" and skip to 142**]
	141. In last one year, how frequently it happened that you wanted to buy and you were able to get your entire PDS quota of kerosene?
	0. 0-3 months 1. 4-6 months 2. 7-9 months 3. 10-12 months
	142.Do people in your village resell subsidized kerosene?1 Yes0 No143.Do you think this practice should be stopped?1 Yes0 No
	144. Should government condition kerosene subsidy on income? 1 Yes 0 No
	145. Should government condition kerosene subsidy on household size? 1 Yes 0 No
	146. Should government condition kerosene subsidy on government caste? 1 Yes 0 No
	147. Should government condition kerosene subsidy on urban/rural area? 1 Yes 0 No
	148. Which of the following should determine the amount of subsidy?
	1 Gram panchayat
	2 State government
	3 Central government
	149. What is the level of corruption in the supply of PDS kerosene?
	0 Corrupt 1 Neutral 2 Clean 99 Don't know
	150.If the government could only subsidize one type of lighting, which one should it be? [CHECK ONE]
	0 Kerosene
	1 Solar lantern/ Solar home systems
	2 Micro-grid
	3 Lighting through the regular electric grid
	4 Other, specify:
LP	G QUESTIONS (FOR ALL HOUSEHOLDS)
	151 . Which of the following should be in charge of the supply of LPG in your village?
	1 Government
	2 Private corporations
	3. Non-governmental organizations
	4. Other, specify
	152. Do people in your village resell subsidized LPG? 1 Yes 0 No 99 Don't Know 999 NA

153.Do you think that this practice should be stopped?	1 Yes	0 No	99 Don't Know	999 NA
154.Do you think that this practice is legal?	1 Yes	0 No	99 Don't Know	999 NA
155.Please rank the following on the basis of what governme PRIORITY, 4 LOWEST PRIORITY]:	ent shou	ld priorit	ies [1 IS HIGHES	ST
155.1. Provision of improved biomass cook-stov	es es	[1	-4]	
155.2. Increased LPG subsidy		[1	-4]	
155.3. Provision of improved biogas plants		[1	-4]	
115.4 Improved availability of LPG cylinders		[1	-4]	

Revenue Village Module

Α.	IV	letadata								
	1.	State								
	2.	Division		-						
	3.	District								
	4.	Block								
	5.	Revenue Village name								
	6.	Village census code (2011)			-					
В.	LI	EADER CHARACTERISTIC	cs							
	7.	Revenue Village leader's age					[/	AGE IN	YEARS]
		Revenue Village leader's gende Revenue Village leader's native		ne.			1 Male		0 Fem	ale
		Read and write native language	_	gc			1 Yes		0 No	
		Level of education								
		1 No formal schooling 2 Lower	primar	v 3 M	1idd	le schoo	ı			
				uate and abo						
	12.	Religion		1 Hindu		2 Musl	m	3 Othe	er	
	13.	Government caste		1 Schedule 3 Other Bac			ss	2 Scho 4 Gen	eduled T eral	ribe
				5 Others				6 No (Caste	
	14.	Which ration card does your hou	usehold	have?						
		0 None 1 APL		2 BPL		3 Antyo	odaya			
	15.	What is the main source of incor	me in yo	our family?						
		4 Salaried job		ration on lease rearing			6 Own	busine		abor
	16.	How many rupees does your ho [RUPEES/MONTH]	useholo	d spend in a	typ	ical mon	th?			
	17.	How many rupees does your ho money, how much do you need [RUPEES/YEAR] [NEGATIVE V	to borro	ow in a typica	al y	ear?	If your I	nouseho	old does	n't save
	18.	Does anyone in your household	have a	bank accou	nt?			1 Yes		0 No
	19.	Is your household currently inde	bted?					1 Yes		0 No
	20.	How much land does your houseUnit	ehold o	wn?				[) if none]

C. REVENUE VILLAGE SITUATION 21. Is there grid electricity in the revenue village? 1 Yes 0 No (Skip to 21.3) IF YES: 21.1. When was the village first electrified? YEAR 21.2. What is the total number of household in each habitation of this revenue village? And how many of them are electrified through grid? [TOTAL HOUSEHOLDS] 21.2.1. Habitation _____ [NAME] [ELEC HOUSEHOLDS] [NAME] [TOTAL HOUSEHOLDS] 21.2.2. Habitation [ELEC HOUSEHOLDS] [ELEC _ [NAME] _____ [TOTAL HOUSEHOLDS] 21.2.3. Habitation HOUSEHOLDS] 21.2.4. Habitation [NAME] _____ [TOTAL HOUSEHOLDS] [ELEC HOUSEHOLDS] __ [TOTAL HOUSEHOLDS] [NAME] 21.2.5. Habitation [ELEC HOUSEHOLDS] ___ [ELEC 21.2.6. Habitation [NAME]____ [TOTAL HOUSEHOLDS] HOUSEHOLDS1 [NAME]____ [TOTAL HOUSEHOLDS] 21.2.7. Habitation [ELEC HOUSEHOLDS] IF NO: 21.3. When is electrification expected? [NA if not] [YEAR] **22**. Is there a micro-grid in the revenue village? 1 Yes 0 No (Skip to 22.6) IF YES: 22.1. What is the energy source? [SOURCE] 22.2. Who introduced micro-grid? 1 Government 2 NGO 3 Private company 22.3. How many households are using the micro-grid? [NUMBER] 22.4. Does the micro-grid provide enough power for [CHECK ALL THAT APPLY]: 22.4.1. Lighting 1 Yes 0 No 1 Yes 0 No 22.4.2. Mobile charging 22.4.3. Fans 1 Yes 0 No 22.4.4. Television 1 Yes 0 No 22.4.5. Productive uses 0 No 1 Yes 22.5. For these services, how much the micro-grid provider is charging a household on monthly basis? _____[Rupees/month] IF NO:

22.6. When is micro-grid setup expected? [NA if not]

[YEAR]

23.	. How many solar home systems are there in the revenue villag	ge?	[NU	JMBER]
	IF MORE THAN ZERO (OTHERWISE, Skip to 24):			
	23.1. When solar home systems were initially introduced	l?	[YE	AR]
	23.2. Initially introduced by whom? 1 Government	2 NGO	3 Private	company
24.	. Has government conducted awareness campaigns on solar barries of No	ased elec	ctricity in you	r village?
	IF YES:			
	24.1. When was the first campaign conducted?		[YE	AR]
	IF NO:			
	24.2. When is the campaign expected? [NA if not]		[YE	AR]
25.	Is LPG available in the revenue village?	Yes	0 No (S	Skip to 26)
	25.1. When did the village first get access to LPG?			[YEAR]
	25.2. What percentage of households uses LPG for coo	king?		[PERCENT]
26.	 Has government conducted awareness campaigns on LPG in 1 Yes 0 No 	your rev	enue village′	?
	IF YES:			
	26.1. When was the first campaign conducted?		YEAR	MONTH
	IF NO:			
	26.2. When is the campaign expected? [NA if not]		[YE	AR]
27.	. Are improved cook stoves used in the revenue village? IF YES:	1 Y	'es	0 No (Skip to 28)
	27.1. When the improved cook stoves were first introduc	ced in the	village?	[YEAR]
	27.2. Who introduced clean cook stoves? 1 Governr	ment 2 N	IGO 3 Priva	te company
	27.3. How many households use improved cook stoves			
28.	 Has government conducted awareness campaigns on clean c 1 Yes 0 No 	cook stove	es in your re	venue village?
	IF YES:			
	28.1. When was the first campaign conducted?		[YE	AR]
	IF NO:			-
	28.2. When is the campaign expected? [NA if not]		[YE	AR]
29.	. Are biogas plants for cooking used in the revenue village? 1	Yes 0 N	lo (Skip to 3	80)
	29.1. When the biogas plants were first introduced in the	e village?		[YEAR]

	29.2.	Who introduced biogas plants?	1 Government	2 NGO	3 Private	company					
	29.3.	How many households use biogas pla	nts for cooking?		_ [NUMB	BER]					
30.	Has govern	nment conducted awareness campaigr 1 Yes 0 No	ns on biogas plant	ts for cool	king in yo	ur revenue					
	IF YES:										
	30.1.	30.1. When was the first campaign conducted?				[YEAR]					
	IF NO:										
	30.2.	0.2. When is the campaign expected? [NA if not]			[YEAR]						
31.	Does the r	evenue village have a PDS?		1 Yes	0	No					
	IF YES	:									
	31.1.	Is supply enough to fulfill kerosene qu	ota?	1 Yes	0	No					
	31.2.	Has PDS supplied kerosene in past 3	0 days?	1 Yes	0	No					
	31.3.	Any complaints about corruption?		1 Yes	0	No					
	IF NO:										
	31.4.	How far is closest PDS?			[KILO	METERS]					
32.	Is the Reve	enue Village part of the RGGVY schem	ne? 1 Yes	(0 No (Ski	ip to 33)					
	IF YES:										
	32.1.	When were the RGGVY works started	l?	YE	AR						
	32.2.	When were the RGGVY works comple	eted?	YE	AR						
	32.3.	How many BPL households were elec	GVY?		_ NUMBER						
	32.4.	32.4. How many APL households were electrified under RGGV				_ NUMBER					
	32.5.	What was the connection fee per BPL			_ [RUPEES						
	32.6.	What was the connection fee for APL	household?	-		_ [RUPEES					
33.	Is the Reve	enue Village part of the Remote Village	Electrification pro	ogram?							
	1 Yes	0 No (Skip to 34)									
	IF YES	:									
	33.1.	When were the RVE works started?		YE	AR						
	33.2.	When were the RVE works completed	! ?	YE	AR						
	33.3. How many BPL households were electrified under RVE			? .		_ NUMBER					
	33.4. How many APL households were electrified under RVE			?		_ NUMBER					
	33.5.	33.5. What was the connection fee per BPL household?				_ [RUPEES					
	33.6.	33.6. What was the connection fee for APL household?				_ [RUPEES					
	33.7.	7. What is the monthly fee per BPL household?				_ [RUPEES					
	33.8.	3. What is the monthly fee for APL household?				_ [RUPEES					
	33.9.	What is the energy source:				_ [SOURCE					
	33 10). Did the gram panchayat supervise th	ne project?		1 Yes	0 No					

34.	How many community spaces are there in the Revenue Village?										
	34.1. Primary Schools NUMBE	R ELECT	RIFIED	NUMBER	UNELEC	TRIFIED					
	34.2. Middle Schools NUMBE	R ELECTI	RIFIED	NUMBER	UNELEC	TRIFIED					
	34.3. Aanganwaadi NUMBE	R ELECTI	RIFIED	NUMBER	UNELEC	TRIFIED					
	34.4. Dispensary NUMBE	RIFIED	NUMBER UNELECTRIFIED								
	34.5. Religious Place NUMBE	RIFIED	NUMBER UNELECTRIFIED								
	34.6. Other Community Place NUMBE	R ELECTI	RIFIED	NUMBER	UNELEC	TRIFIED					
35.	Is inadequate street lighting creating safety pro	oblems?	0 Not a	t all 1 So	metimes	2 Often					
36.	Are there any street lights in the Revenue Village? 1 Yes 0 No (Skip to 37)										
	IF YES:										
	36.1. How many street lights are there?	are there?		[NUMBER]							
	36.2. When were the street-lights installe	[YEAR]									
	36.3. Who has installed them?	1 Gov	/ernment	2 NGO 3 Private company							
	36.4. Who maintains them?	1 Gov	Government 2 NGO 3 Private company			any					
	36.5. Are they currently functional?	0 Nor	ne	1 Some	2 All						
	36.6. Is the lighting adequate?	0 Not	at all	1 Somewhat	at 2 Completely						
37.	Are there pump-sets in the Revenue Village, us	sed for irrig	gation?	1 Yes	0 No (S	rip to 38)					
	IF YES:										
	37.1. Number of pump-sets in the Revenue Village electrified by:										
	Grid electricity Diesel	_s	olar								
38.	How many of following instances are there in the	he Revenu	e Village?	,							
	38.1 Electric thrasher / agro-processor										
	38.2 Flour Mill										
	38.3 Milk chilling center										
	38.4 IT kiosk										
	38.5 Other productive usage of electr	ricity (Spec	ify)								