

Baseline Survey of Rani-Jamara-Kulariya Irrigation Project  
Household Survey Questionnaire

**SECTION A:  
BACKGROUND**

Survey Category:	Tick (✓) the selected
1 . Farmers group members who already received training	
2 . Farmers group members who will receive training next year	
3 Control Farmers group members who don't get training (within RJK)	
4 . Control Farmers group or none group out side of command area of RJK	

**Clarification: (Innumerator should read this text before starting the interview is essential)**

Namaste! My name is \_\_\_\_\_ and I come from a organization called Full Bright Consultancy (Pvt.) Ltd. which is based in Kathmandu. We are collecting data within and around the existing command area of Rani-Jamara-Kulariya Irrigation Project on behalf of the World Bank, and RJKIP. The purpose of the collection of data is to find the baseline data of Rani-Jamara-Kulariya Irrigation Project before completion of extension of canal capacity through under-constructing improved irrigation system.

The information you give us is completely voluntary. You can withdraw from the study at any point in time and without giving any reason. In addition, you can refuse to answer any question at any time. Neither your current nor future benefits will be affected if you decide not to participate or if you withdraw from the study or if you decide not to answer any set of questions. All of your answers will be kept in the strictest confidence, and your name will never be connected to any of the answers you provide. The information will be used only for study purpose.

This study has been designed by a team of the World Bank country office, Nepal and Experts of Full Bright Consultancy with close coordination of Rani-Jamara-Kulariya Irrigation Project Office and Agriculture Service Center Tikapur. If you have any doubt or comment about this study, you feel free to consult/ask with the above-mentioned institutional heads or their representatives.

SN	Question	Response	
0	Do you agree to continue this interview	Yes. 1 No .2	Start End
1	District: Kailali Code	71	
2	V.D.C/Municipality: Code		
3	Ward No.		
4	Village Name		
Interview		First Visit	Second Visit
5	Interview Date	<u>D</u> <u>M</u> <u>Y</u>	<u>D</u> <u>M</u> <u>Y</u>
6	Interview Start Time		
7	Interviewer's Name		
8	Interviewer's ID Number:		
9	Respondent's Name		
10	Respondent's Line No. from Roster		
11	Is Respondent HH Head ? 1 = Yes, 2 = No		
12	Telephone No. (Close friend's if no personal)		
13	<b>Mother Tongue:</b> 1 = Nepali, 2 = Tharu, 3 = Hindi, 96 = Others (Specify).....		
14	<b>Ethnic Group:</b> 1= Brahmin, 2= Chhetri, 3 = Thakuri, 4 = Janajati/Tharu, 5 = Madheshi, 6 = Dalit, 7 = Others		
15	<b>Religion:</b> 1 = Hindu, 2 = Buddhist, 3 = Islam, 4 = Christian, 96 = Others (Specify) .....		
14	<b>Language Used in Interview:</b> 1 = Nepali, 2 = Tharu, 3 = Hindi, 96 = Others (Specify)		

15	Supervisor's ID	
16	Are all the filled items checked by by the supervisor? [1 = Yes, 2 = No]	

## SECTION –B: FAMILY RELATED INFORMATION

B.1.1	B.1.2	B.1.3	B.1.4	B.1.5	B.1.6	B.1.7
Roster Code	Name of the Family members [Start with HH head's name] [Record names only for adults age 16 and over] [For children put Child 1,2,3 as name]	*Relationship with HH Head	Sex 1= Male 2= Female	Age [Enter years] [For children under 1, put 1]	** Level of Education Passed	***Residential location in last 30 days?
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						

### Codes:

1) **\*Relationship with HH Heads:** 1 = HH Head, 2 = Spouse; 3 = Son/Dadughter; 4 = Son-in-law/Daughter-in-law, 5 = Grand Child; 6 = Parent; 7 = Grand Parent; 8 = Father-in- law/Mother – in – law; 9 = Brother/Sister, Brother – in-law/Sister – in – law; 10 = Niece/nephew; 11 = Children of Brother-in-law/Sister- in- law; 12 = Other Relatives; 13 = Adopted/foster/stepchild; 14 = Not related.

2) **\*\* Educational Level:** 1 = Primary, 2 = Secondary. 3 = H. Secondary, 4 = Bachelors, 5 = Masters, 6 = Informal Education, 7 = No Education.

3) **\*\*\* Residential location in last 30 days:** 1 = At this place; 2 = Out of this place but within Nepal; 3 = Out of Nepal.

## SECTION –C: WATER USER'S GROUPS AND INCOME

C.1.1 Have you or your family members ever become members of user's committee of this irrigation system?

*[Ask for main committee] [1 = Yes, 2 = No Skip C.1.4]*

C.1.2 If yes, in which of the following committee level were you involved?

*[ 1= Tertiary Canal; 2 = Sub Branch Canal; 3 = Branch Canal; 4 = Main Canal Committee]*

C.1.3 Which canal or sub-branch canal committee do you belong to? (Write Name)

C.1.4 Are you satisfied with the activities of the Water User's Committee/Association? *[1 = Highly Satisfied; 2 = Satisfied; 3 = Not satisfied; 4 = N/A or Out of Command Area [Skip to C.2]*

C.1.5 If not satisfied, please give the reasons: .....

C.1.6 Have you ever participated in any capacity development trainings? *[ 1 = Yes, 2 = No (skip to C.2)]*

C.1.7 If yes, how do you evaluate the training? *[ 1= Useful, 2 = Not Useful]*

C.1.8 If not useful, please give the reasons: .....

### C.2 Non Agricultural Income

C.0.1 Income Sources		C.0.2 Monthly Amount (NRs)
1	Remittance	
2	Pension/Retirement	
3	Social Security Allowance	
4	Other..... (Specify)	

C.2.2 Did any members of the household do work for a wage or salary in the last week? *[1 = Yes, 2 = No (skip to Sec. D)]*

C.2.3 ID of member from HH Roster

C.2.4 Earnings in last 1 week[Rupee]

C.2.5 Days worked in last 1 week  
[Days]

## SECTION –D: WEEKLY EXPENDITURE - FOOD

Weekly Expenditure		D.1.1	D.1.2	D.1.3	D.1.4		D.1.5
Food Category	Unit	Has your HH consumed any [FOOD] from your own production over the last week?	How much [FOOD] of your own production did your HH consume over the last week?	Has your HH purchased any [FOOD] over the last week?	How much [FOOD] did you purchase?		How much in total did your HH spend on purchased [FOOD] over the last week?
		1 = Yes 2 = No > D.1.3	Qty.	1 = Yes, 2 = No > to Next Item	Unit	Qty.	Rupees
1. Flour, Bread	Kg						
2. Rice	Kg						
3. Noodles	pckt						
4. Other cereals (maize,barley, sorghum, millet, wheat)	Kg						
5. Potatoes, sweet potatoes, root vegetables	Kg						
6. Vegetables	Kg						
7. Fruits (fresh and dry)	Kg						
8. Beans & lentils	Kg						
9. Nuts & seeds	Kg						
10. Eggs	Num.						
11. Dairy products (milk, cheese, yoghurt)	Litre						
12. Meat (goat, beef, lamb, pork)	Kg						
13. Poultry (chicken, duck, pidgeon)	Kg						
14. Fish (fresh and dry)	Kg						
15. Oil/fats (ghee, butter, veg oil)	Litre						
16. Sugar, Honey, other sweeteners	Kg						
17. Tea leaves/coffee beans/ground coffee	Kg						
18. Soft Drinks, fruit juices	Litre						
19. Condiments (salt, spices, ginger, sauce, pickle, garlic, onions, ketchup, etc.)	Kg						
20. Meals prepared outside HH							

## SECTION –E: AGRICULTURE

**E.1** Please give the detail of the ownership status of all your land.

Type of land	<b>E.1.1</b> Area under Command of RJKIP (Kaththa)	<b>E.1.2</b> Area out of command of RJKIP (Kaththa)
Khet (Lowland)		
Bari (Upland)		
Orchard		
Fish Pond		
Jungle/Grassland		
Others		

**E.2** Please give the details of all land area cultivated by you in last 1 year

Type of land	<b>E.2.1</b> Area under Summer crop	<b>E.2.2</b> Area under Winter crop	<b>E.2.3</b> Area under Spring crop
Khet			
Bari			
Orchard			
Others			

**E.3** Please give the detail of all land area by cultivation seasons

Seasons	<b>E.3.1</b> Self cultivated own land (kaththa)	<b>E.3.2</b> Land Tenant-in (kaththa)	<b>E.3.3</b> Land Tenant-out (kaththa)
Summer(Ashadh-Ashwin)			
Spring(Chaitra-Jeshtha)			
Winter(Kartik-Falgun)			

**E.4** Now we would like to ask you about the activities you do on specific plots. Could you please tell me about the biggest plot which is irrigated from the RJK canal system and the biggest plot you have or cultivate by renting that does not have access to the RJK system? (Record name of these two plots below).

<b>E.4.1</b>	<b>E.4.2</b>	<b>E.4.3</b>	<b>E.4.4</b>	<b>E.4.5</b>	<b>E.4.6</b>		<b>E.4.7</b>
Plot ID	Name of plot	What is the area of this plot? (Kaththa)	Do you own this land?  1-Own 2-Rent-in 3-Rent-out	Is this plot irrigated by the RJK canals?  1-Fully Irrigated by RJK [->E.4.6 only] 2-Partially irrigated by RJK and another source [-> E.4.6 and E.4.7] 3-Un-irrigated or irrigated only by another source [Skip ->E.4.7]	If irrigated by RJK Canals, which canal or sub-branch canal?		If irrigated by another source, what is the other source? 1-Canal; 2-Tubewell; 3-Deep Tubewell / Boring; 4-Pond; 5-Well
					Name	Code	
1							
2							

### E.5 In the last completed Summer (*Ashad-Aswin*) season

Ask about highest revenue crops (the crops most important to the household)

E.5.1	E.5.2	E.5.3		E.5.4	E.5.5	E.5.6	E.5.7	E.5.8	E.5.9	E.5.10
Plot ID	Which crops did you cultivate in this season?	What is the area of this plot under cultivation for this crop in this season?		How much seed did you use for this crop in this season?	What was the total quantity of this crop you harvested from this plot in this season?	How much organic manure did you use in this season?	How much chemical fertilizer did you use in this season? (KG)	How much did you spend on micro-nutrients?	How many person-days did family members spend working on this plot for this crop?	How much did you spend on hired labor for this plot and crop?
	(CODE)	(Kaththa)	Intercropped? ( $\sim$ )	(KG)	(KG)	(KG)	(KG)	(RS)	(Days)	(RS)
1										
2										

## E.6 In the last completed Spring (Chaitra-Jestha) season...

Ask about highest revenue crops (the crops most important to the household)

E.6.1	E.6.2	E.6.3		E.6.4	E.6.5	E.6.6	E.6.7	E.6.8	E.6.9	E.6.10
Plot ID	Which crops did you cultivate in this season?	What is the area of this plot under cultivation for this crop in this season?		How much seed did you use for this crop in this season?	What was the total quantity of this crop you harvested from this plot in this season?	How much organic manure did you use in this season?	How much chemical fertilizer did you use in this season? (KG)	How much did you spend on micro-nutrients?	How many person-days did family members spend working on this plot for this crop?	How much did you spend on hired labor for this plot and crop?
	(CODE)	(Kaththa)	Intercropped? (Y)	(KG)	(KG)	(KG)	(KG)	(RS)	(Days)	(RS)
1										
2										

## E.7 In the last completed Witer (Kartik-Fagun) season...

Ask about highest revenue crops (the crops most important to the household)

E.7.1	E.7.2	E.7.3		E.7.4	E.7.5	E.7.6	E.6.7	E.7.8	E.7.9	E.7.10
Plot ID	Which crops did you cultivate in this season?	What is the area of this plot under cultivation for this crop in this season?		How much seed did you use for this crop in this season?	What was the total quantity of this crop you harvested from this plot in this season?	How much organic manure did you use in this season?	How much chemical fertilizer did you use in this season? (KG)	How much did you spend on micro-nutrients?	How many person-days did family members spend working on this plot for this crop?	How much did you spend on hired labor for this plot and crop?
	(CODE)	(Kaththa)	Intercropped? (Y)	(KG)	(KG)	(KG)	(KG)	(RS)	(Days)	(RS)
1										
2										



**E.8** Please answer the following questions for the biggest irrigated plot described above:

E.8.1	E.8.2	E.8.3	E.8.4	E.8.5	E.8.6	E.8.7	E.8.8	E.8.9	E.8.10	E.8.11	E.8.12	E.8.13
Season	How much did you pay in maintenance fees for this season?	Area irrigated	Total number of irrigations	Depth of irrigation	Could you get sufficient water for flooding?	Average length of one irrigation turn?	How long did it take you to irrigate your plot?	Did the timing of your canal water turn meet your needs?	How was the quality of canal water?	Did you use a pump to extract water from the canal?	How much did you pay to use the pump (including rental, electricity, diesel)	Did you use your full share of water allocation?
	(Rs.)	(Kaththa)	(No.)	(Cm) [If done with groundwaterw rite -99*] [Enter -888 for Don't know]	1-Not enough available 2-Just enough 3-More than Enough	(hours)	(hrs)	1 - Yes 2 - No	1 - Good 2 - Somewhat brackish 3 - Brackish	1 - Yes 2 - No ► E.8.13	(Rs.)	0 No turns 1 All turns 2 Most turns 3 Few turns
Summer 2016												
Spring 2016												
Winter 2015-2016												

*\*if the answer is -99, skip to E.8.12*

**E.9 Status of Harvested Crops in different Seasons**

<b>E.9.1</b>	<b>E.9.2</b>		<b>E.9.3</b>	<b>E.9.4</b>	<b>E.9.5</b>	<b>E.9.6</b>	<b>E.9.7</b>
Season	What were all the crops you harvested in this season across all plots?		Total Area	Total Quantity Harvested	Stock in Store	Quantity Sold	Price Per KG
	S.No	Crop ID	Kathha	KG	KG	KG	RS
Summer 2016 (Ashad–Aswin)	1						
	2						
	3						
	4						
	5						
	6						
	7						
Spring 2016 (Chaitra-Jeshta)	1						
	2						
	3						
	4						
	5						
	6						
	7						
Winter 2015 (kartik-falgun)	1						
	2						
	3						
	4						
	5						
	6						
	7						

## E.10 Use of Agricultural Tools

Agriculture-Tools/Inputs	Used or Not Used (√)		
	E.10.1 Used-own	E.10.2 Used-rented	E.10.3 Not Used
1. Plough			
2. Tractor			
3. Power Tiller			
4. Cornplanter			
5. Pumpset			
6. Water Pump			
7. Thressure			
8. Harvester			
9. Sprayer			
10. Water cane			
11. Others			

### CROP CODES:

CEREALS:		OILSEED CROPS:			
PADDY-LOCAL	1	MUSTARD	27	OTHER GUARDS	52
PADDY-IMPROVED	2	GROUND NUT	28	CARROT	53
WHEAT-LOCAL	3	LINSEED	29	LEAFY VEGETBLES	54
WHEAT-IMPROVED	4	SESAME	30	CUCUMBER	55
MAIZE-LOCAL	5	OTHER OILSEED	31	LADIES FINGER	56
MAIZE-IMPROVED	6	<b>CASH CROPS:</b>		PUMPKIN	<b>57</b>
MILLET	7	SUGARCANE	32	AMARANTHUS	58
BARLEY	8	JUTE	33	<b>CITRUS FRUITS:</b>	
BUCKWHEAT	9	TOBACCO	34	ORANGE	59
OTHER CEREALS	10	OTHER CASH CROPS	35	LEMON	60
<b>PULSES AND LEGUMES:</b>		<b>SPICES:</b>		LIME	61
SOYBEANS	11	CHILLIES	36	SWEET LIME	62
BLACK GRAM	12	ONIONS	37	OTHER CITRUS	63
RED GRAM	13	GARLIC	<b>38</b>	<b>NON-CITRUS FRUITS</b>	
GRASS PEA	14	GINGER	39	MANGO	64
LENTIL	15	TURMERIC	40	BANANA	65
GRAM	16	CARDAMOM	41	GOUVA	66
PEA	17	CORIANDER SEED	42	JACK FRUIT	67
GREEN GRAM	18	OTHER SPICES	43	PINEAPPLE	68
COARSE GRAM	19	<b>VEGETABLES</b>		LICHEE	69
COW PEA	20	CAULIFLOWER	44	PEAR	70
OTHER LEGUMES	21	CABABE	45	APPLE	71
<b>TUBER AND BULB CROPS:</b>		BROCCOLI	46	PLUM	72
WINTER POTATO	22	TOMATO	47	PAPAYA	73
SUMMER POTATO	23	BRINGEL	48	POMEGRANATE	74
SWEET POTATO	24	RADISH	49	OTHER FRUITS	75
COLOCASIA	25	BITTER GUARD	50	<b>OTHER:</b>	
OTHER TUBERS	26	BOTTLE GUARD	51	TEA	76
				THATCH	77
				FODDER TREES	78
				BAMBOO	79
				OTHER TREES	80

SECTION –F: AGRICULTURE EXTENSION SERVICES						
F.1	F.2	F.3		F.4	F.5	F.6
Did you receive any training from RJKIP, Ag Sector?	The training was useful to me.	The trainer was well prepared and knowledgeable.		Did you understand the training's language of delivery.	The content of the training was useful for the training	The materials used for the training (PowerPoint, leaflets, brochure, etc.) was useful
1 - Yes 2 - No (Skip → F.8)	1 - Strongly Agree 2 – Agree 3 – Neutral 4 – Disagree 5 - Strongly disagree	1 - Strongly Agree 2 - Agree 3 - Neutral 4 - Disagree 5 - Strongly disagree		1 - Very well 2 - Well 3 - Somewhat 4 - Not at all	1 - Strongly Agree 2 - Agree 3 - Neutral 4 - Disagree 5 - Strongly disagree	1 - Strongly Agree 2 - Agree 3 - Neutral 4 - Disagree 5 - Strongly disagree
F.7 Which of the following training sessions offered by the RJKIP Agriculture Implementation Office did you attend?		Attended (√)	Did not attend (√)	F.8 Did you receive any training on cultivation from NGOs/INGOs other than RJKIP Ag Sector?	F.8.1 State the names of the INGOs/NGOs that provided you with training	F.8.2 State the names of the trainings you received
1. Cauliflower				1 - Yes 2 - No (→ PICK THREE SECTIONS AT RANDOM FROM Section F1-F15)		
2. Cabbage Cultivation						
3. Bean Seeds Production Methods						
4. Banana Cultivation					1	1
5. Sugarcane Cultivation					2	2
6. Onion Cultivation					3	3
7. Cucurbits Offseason Cultivation					4	4
8. Chillies Cultivation						
9. Tomato Cultivation						
10. Okra (lady's finger) cultivation						
11. Paddy Seed Selection and Treatment						
12. Paddy Bed Preparation						
13. Lentil Cultivation						
14. Wheat Cultivation						
15. Potato Diseases and Prevention						

## SECTION F1 - CAULIFLOWER CULTIVATION

10	11	12	13	14	
Did you receive a training on cauliflower cultivation?	Did you apply or practice the learnt knowledge and practices from the training?	If yes what practices did you apply in the field?	If no, could you please state reasons for not using the knowledge?	How can you prevent your cauliflower from Molybdenum deficiency (with symptoms of crumpled and overcrowded white and yellow leaves)?	
1 - Yes 2 - No (Skip to 18)	1 - Yes 2 - No ( Skip to 13)	a) _____ b) _____ c) _____	a) _____ b) _____ c) _____	1 - Use Boron while preparing soil for plantation 2 - Spray Boron mixed in water <b>3 - Use 45 gram of Sodium Ammonium Molybdenum mixed with chemical fertilizer per Ropani of land</b> 4 - Don't know	
15	16	17	18	19	20
How can you prevent your cauliflower from not growing to its full potential?	Name any two cauliflower diseases:	Name two insects that can affect cauliflowers negatively:	How does cabbage butterfly damage cauliflower plants?	Which planting season can potentially produce maximum profits from cauliflower cultivation?	Name three types of cauliflower that are regular season (any three would suffice):
1 - Transplanting seedlings to fertile soil on time 2 - Use Nitrogen rich fertilizer on time 3 - Maintain appropriate soil moisture <b>4 - All of the above</b> 5 - Don't know	1 - Club root (gada jasto jara hune) 2 - Damping off (Biruwa marne rog) 3 - Powdery mildew (Kapasedhusi) 4 - Don't know	1 - Cabbage butterfly 2 - Tobacco butterfly 3 - Brick pattern larvae 4 - Aphid (lahi) 5 - Don't know	1 - Damage the stem <b>2 - Damage the leaves</b> 3 - Damage the crown 4 - Don't know	1 - On season <b>2 - Off season</b> 3 - Both (1) and (2) 4 - Don't know	1 - Snow Crown 2 - Snow King 3 - Kathmandu local 4 - Jyapu local 5 - Don't know

## SECTION F2 - CABBAGE CULTIVATION

21	22	23	24	25
Did you receive a training on cabbage cultivation?	Did you apply or practice the learnt knowledge and practices from the training?	If yes what practices did you apply in the field?	If no, could you please state reasons for not using the knowledge?	What is the optimal amount of seed for cultivation per kattha?
1 - Yes 2 - No (Skip to 28)	1 - Yes 2 - No ( Skip to 24)	a) _____ b) _____ c) _____	a) _____ b) _____ c) _____	1 - 5 gram <b>2 - 10 gram</b> 3 - 15 gram 4 - None of the above 5 - Don't know
26	27	28	29	30
How can we protect seedlings from extreme temperature/rain?	The best season with suitable environment for cabbage is:	Name three varieties of cabbage	Name two common diseases of cabbage	Name two most comoin insects that affect cabbage plants
<b>1 - Cover seedlings with stray or grass</b> 2 - No need to protect the seedlings 3 - Don't know	1 - Summer <b>2 - Winter</b> 3 - Spring 4 - Don't know	1 - Greenstone 2 - Green coronate 3 - Zenisth 4 - Super Green 5 - All green 6 - Don't know	1 - Club root 2- Kapase dhusi 3 - Alterneria thople 4 - Don't know	1 - Cabbage butterfly 2 - Tobacco butterfly 3 - Brick pattern larvae 4 - Aphid (lahi) 5 - Don't know

### SECTION F3 - BEAN SEEDS PRODUCTION METHOD

31	32	33	34	35
Did you receive a training on Bean Seeds Production?	Did you apply or practice the learnt knowledge and practices from the training?	If yes what practices did you apply in the field?	If no, could you please state reasons for not using the knowledge?	Name three major early steps to keep in mind for bean seeds production
1 - Yes 2 - No (Skip to 38)	1 - Yes 2 - No ( Skip to 34)	a) _____ b) _____ c) _____	a) _____ b) _____ c) _____	1 - Selection of appropriate soil 2 - maintaining proper distance between plants 3 - Land Preparation 4 - Bean planting methods 5 - Fertilizer selection and use 6 - Don't know
36	37	38	39	40
Where should one buy the bean seeds from?	Name two organic or inorganic fertilizers that can be used for healthy high quality plant and seeds (any of two works):	When is the best time to harvest the peas?	To store the bean seeds properly, farmers should dry the seeds properly	Bean seeds can be stored immediately after drying.
1 – Agrovat 2 - Seed company 3 - Agriculture research station 4 - Agriculture cooperative 5 - Seed producing farm <b>6 - All of the above</b> 7 - Don't know	1 - Compost 2 - Nitrogen 3 - Potash 4 - Don't know	<b>1 - When the bean pods turn yellow</b> 2 - When pea pods are still green 3 - Pea pods are dry and brown 4 - None of the above 5 - Don't know	0 - False <b>1 - True</b> 2 - Don't know	<b>0 - False</b> 1 - True 2 - Don't know

### SECTION F4 - BANANA CULTIVATION

41	42	43	44	45
Did you receive a training on Banana Cultivation?	Did you apply or practice the learnt knowledge and practices from the training?	If yes what practices did you apply in the field?	If no, could you please state reasons for not using the knowledge?	Banana cultivation should be rotated every 3-4 years for protection from insects and diseases related to banana plants
1 - Yes 2 - No (Skip to 48)	1 - Yes 2 - No ( Skip to 44)	a) _____ b) _____ c) _____	a) _____ b) _____ c) _____	0 - False 1 - True 2 - Don't know
46	47	48	49	50
How is land prepared for banana cultivation?	What is the advantage of crop rotation with banana cultivation	How many banana suckers are required per bigha?	Name three common varieties of bananas:	Name two diseases that are common to banana plants
1 - Prepare raised bed with ridges for irrigation 2 - Transplant the banana in the field directly 3 - Make hole/ ditches and transplant the suckers 4 - All of the above 5 - Don't know	1 - Reduce the likelihood of diseases and insects 2 - Maintain the soil fertility 3 - Both (1) and (2) 4 - Don't know	1 : 400 - 700 2 : 700 - 1800 3 : 1800 - 2000 4 : All of the above 5 : Don't know	1 - William Hybrid 2 - Harichhal 3 - Malbhog 4 - Z 9 5 - Chinichampa 6 - Don't know	1 - Bunch top (tuppo ma jhuppa) 2 - Panam disease (Kerako bot ailaune) 3 - Anthracnore (kotre rog) 4 - Don't know

## SECTION F5 - SUGARCANE CULTIVATION



51	52	53	54	55
Did you receive a training on Sugarcane Cultivation?	Did you apply or practice the learnt knowledge and practices from the training?	If yes what practices did you apply in the field?	If no, could you please state reasons for not using the knowledge?	One kattha of land requires 60 - 80 kilos of sugarcane seeds.
1 - Yes 2 - No (Skip to 58)	1 - Yes 2 - No ( Skip to 54)	a) _____ b) _____ c) _____	a) _____ b) _____ c) _____	0 - False <b>1 - True</b> 2 - Don't know
56	57	58	59	60
Name three varieties of sugarcane	Depending on the conditions of pests and diseases, sugarcane can be kept for	What is the most appropriate type of soil for sugarcane?	It is necessary to tie sugarcane from two rows once it reaches 1 to 1.5 meters to:	What is the best climate for sugarcane cultivation?
1 - Jeetpur 1 2 - Jeetpur 2 3 - B. O. -17, 32, 34, 42, 47, 50 4 - Don't know	1 - One/twpo times <b>2 - Two/three times</b> 3 - Three/four times 4 - All of the above 5 - Don't know	1 - Alluvial <b>2 - Sandy loam</b> 3 - Sandy 4 - Don't know	1 - Prevent it from overcrowding <b>2 - Prevent it from falling</b> 3 - For aesthetics 4 - None of the above 5 - Don't know	1 - Winter 2 - Spring <b>3 - Summer and humid</b> 4 - Don't know

## SECTION F6 - ONION CULTIVATION

61	62	63	64	65
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Did you receive a training on Onion Cultivation?	Did you apply or practice the learnt knowledge and practices from the training?	If yes what practices did you apply in the field?	If no, could you please state reasons for not using the knowledge?	What are the difficulties in onion cultivation?
1 - Yes 2 - No (Skip to 68)	1 - Yes 2 - No ( Skip to 64)	a) _____ b) _____ c) _____	a) _____ b) _____ c) _____	a) _____ b) _____ c) _____
<b>66</b>	<b>67</b>	<b>68</b>	<b>69</b>	<b>70</b>
Demand for onion is all around the year and its increasing	State two ways in which onions can go bad	What are the fertilizers one can use while land preparation for onion cultivation?	Onion bulbs are perfectly dry when	After spreading the seed, one should cover it with straw/thatch
0 - False <b>1 - True</b> 2 - Don't know	1 - Germination 2 - Rot 3 - Withering/drying 4 - Don't know	1 - Compost 2 - DAP 3 - Urea <b>4 - All of the above</b> 5 - Don't know	1 - The shells are dry 2 - The bulb is closed 3 - Bulbs look dry <b>4 - Both (1) and (2)</b> 5 - Don't know	0 - False <b>1 - True</b> 2 - Don't know

## SECTION F7 - CUCURBITS OFFSEASON CULTIVATION

<b>71</b>	<b>72</b>	<b>73</b>	<b>74</b>	<b>75</b>
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Did you receive a training on Cucurbits offseason cultivation?	Did you apply or practice the learnt knowledge and practices from the training?	If yes what practices did you apply in the field?	If no, could you please state reasons for not using the knowledge?	What are the major nutritions obtained from cucumber, bittergourd, pumpkin, squash and gourd?
1 - Yes 2 - No (Skip to 78)	1 - Yes 2 - No ( Skip to 74)	a) _____  b) _____  c) _____	a) _____  b) _____  c) _____	1 - Vitamin A 2 - Iron <b>3 - Both (1) and (2)</b> 4 - None of the above 5 - Don't know
<b>76</b>	<b>77</b>	<b>78</b>	<b>79</b>	<b>80</b>
How many grams of seed do you need for per katha for cucumber, squash, pumpkin and bottle gourd?	While sowing, one must use two seeds per hole	Which season is the best for cucurbits production in terms of environment?	What kind of soil is appropriate for cucurbits production?	What kind of seed sowing do you prefer?
1 - 100 grams <b>2 - 75 grams</b> 3 - 50 grams 4 - Don't know	0 - False <b>1 - True</b> 2 - Don't know	1 - Winter <b>2 - Summer</b> 3 - Rainy 4 - Don't know	1 - Alluvial soil 2 - Sandy soil <b>3 - Balaute domat or Pango domat</b> 4 - None of the above 5 - Don't know	1 - Direct seed sowing 2 - Nursery raise transplant 3 - Don't know

## SECTION F8 - CHILIES CULTIVATION

<b>81</b>	<b>82</b>	<b>83</b>	<b>84</b>	<b>85</b>
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Did you receive a training on Chilies cultivation?	Did you apply or practice the learnt knowledge and practices from the training?	If yes what practices did you apply in the field?	If no, could you please state reasons for not using the knowledge?	How can one prevent/cure chilies plants from Mozac virus?
1 - Yes 2 - No (Skip to 88)	1 - Yes 2 - No ( Skip to 84)	a) _____ b) _____ c) _____	a) _____ b) _____ c) _____	1 - Use healthy seeds 2 - Pluck out affected parts from the plants 3 - Wash hands after touching affected parts <b>4 - All of the above</b> 5 - Don't know
<b>86</b>	<b>87</b>	<b>88</b>	<b>89</b>	<b>90</b>
Name two diseases that can affect chilies:	Once the seedlings are ready to be transformed, the soil attached to the seedlings should be properly removed before transferring.	How many grams of chilies are required per kattha of land?	Name three fertilizers that can be used for production	Chilies can be best grown in rainy season
1 - Anthracnode (kotre) 2 - Mozac Virus 3 - Wilt 4 - Don't know	<b>0 - False</b> 1 - True 2 - Don't know	1 - 20 to 30 grams <b>2 - 30 to 50 grams</b> 3 - 50 to 100 grams 4 - Don't know	1 - Compost 2 - Urea 3 - DAP 4 - Murate of Potash 5 - Chilated zinc 6 - Don't know	0 - False <b>1 - True</b> 2 - Don't know

## SECTION F9 - TOMATO CULTIVATION

<b>91</b>	<b>92</b>	<b>93</b>	<b>94</b>	<b>95</b>
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Did you receive a training on Tomato cultivation?	Did you apply or practice the learnt knowledge and practices from the training?	If yes what practices did you apply in the field?	If no, could you please state reasons for not using the knowledge?	Lahi sucks onto leaves and soft stems of the tomato plant.
1 - Yes 2 - No (Skip to 98)	1 - Yes 2 - No ( Skip to 94)	a)_____ b)_____ c)_____	a)_____ b)_____ c)_____	0 - False 1 - True 2 - Don't know
<b>96</b>	<b>97</b>	<b>98</b>	<b>99</b>	<b>100</b>
Tomato gawaro eats the surface of tomatoes.	For one ropani of land, 10 gram seed is required.	Name three varieties of tomatoes that can be grown in Nepal region	Name two common diseases that affect tomato plants	Name three fertilizers used in tomato cultivation
0 - False 1 - True 2 - Don't know	0 - False 1 - True 2 - Don't know	1 - Manisha 2 - Ankush 3 - Suraksha 4 - Indom 9502/9808 5 - Himsohana 6 - Siris 7 - Don't know	1 - Root rotting disease 2 - Dhadhuwa rog 3 - Oilaune rog 4 - Mozac virus 5 - Don't know	1 - Compost 2 - Urea 3 - DAP 4 - Murate of Potash 5 - Don't know

#### SECTION F10 - OKRA (LADY'S FINGER) CULTIVATION

<b>101</b>	<b>102</b>	<b>103</b>	<b>104</b>	<b>105</b>
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Did you receive a training on Okra cultivation?	Did you apply or practice the learnt knowledge and practices from the training?	If yes what practices did you apply in the field?	If no, could you please state reasons for not using the knowledge?	How can we cure okra plant from yellow mosaic vein virus?
1 - Yes 2 - No (Skip to 108)	1 - Yes 2 - No ( Skip to 104)	a) _____ b) _____ c) _____	a) _____ b) _____ c) _____	1 - Uproot diseased plants and burn them. 2 - Plant disease resistant varieties 3 - Spray Rogar by mixing 2 ml per liter of water 4 - All of the above 5 - Don't know
<b>106</b>	<b>107</b>	<b>108</b>	<b>109</b>	<b>110</b>
Name three fertilizers used for okra cultivation	Ganwaro penetrates the okra plant through its stem and sucks the juice out of the plant so that the plant dies	Okra seeds should be put in water 24 hours prior to sowing.	State the quantity of seed needed for one kattha of land.	Name three varieties of okra:
1 - Compost/Cowdung 2 - Nitrogen 3 - Phosphorus 4 - Potash 5 - Don't know	0 - False 1 - True 2 - Don't know	0 - False 1 - True 2 - Don't know	1 - 200 to 300 gram 2 - <b>300 to 400 gram</b> 3 - 400 to 500 gram 4 - 500 to 600 gram 5 - Don't know	1 - Pusa sawani 2 - Parmani Kranti 3 - Punjab Padmani 4 - Parvati 5 - Ako Anamika 6 - Sagun 7 - Don't know

## SECTION F11 - PADDY SEED SELECTION AND TREATMENT

<b>111</b>	<b>112</b>	<b>113</b>	<b>114</b>	<b>115</b>
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Did you receive a training on Paddy Selection and Treatment?	Did you apply or practice the learnt knowledge and practices from the training?	If yes what practices did you apply in the field?	If no, could you please state reasons for not using the knowledge?	What are the two methods to treat seeds for good quality?
1 - Yes 2 - No (Skip to 116)	1 - Yes 2 - No ( Skip to 114)	a) _____ b) _____ c) _____	a) _____ b) _____ c) _____	<b>1 - Treat the seeds in salt and water.</b> <b>2 - Treat the seeds with chemicals to kill any bacteria or diseases.</b> 3 - Don't know
<b>116</b>			<b>117</b>	<b>118</b>
State two physical attributes of good paddy/rice seed			Seeds that have been selected can be stored anywhere in open or closed space	Seeds that are moist are good quality seeds
<b>1 - Seeds that did not have any broken or damaged seed mixed in it.</b> <b>2 - Seeds that do not have any leaves or seeds of other plants mixed in it.</b> <b>3 - Seeds that do not any small stones, soil, leaves, stem, etc. not mixed</b> 4 - Don't know			<b>0 - False</b> 1 - True 2 - Don't know	<b>0 - False</b> 1 - True 2 - Don't know

## SECTION F12 - PADDY BED PREPARATION

119	120	121	122	123
Did you receive a training on Paddy Bed Preparation?	Did you apply or practice the learnt knowledge and practices from the training?	If yes what practices did you apply in the field?	If no, could you please state reasons for not using the knowledge?	If the seedlings become yellow due to Nitrogen deficiency, one should apply

1 - Yes 2 - No (Skip to 124)	1 - Yes 2 - No ( Skip to 122)	a) _____ b) _____ c) _____	a) _____ b) _____ c) _____	1 - Compost <b>2 - Nitrogen</b> 3 - Phosphorus 4 - Don't know
<b>124</b>	<b>125</b>	<b>126</b>		
The seedlings must be transplanted within the same day of uprooting	Name two fertilizers used for bed preparation	What are the appropriate number of days required for the seedling to be ready?		
0 - False <b>1 - True</b> 2 - Don't know	1 - Compost 2 - Urea 3 - Don't know	1 - 15 to 20 days <b>2 - 20 to 25 days</b> 3 - Don't know		

### SECTION F13 - LENTIL CULTIVATION METHOD

<b>127</b>	<b>128</b>	<b>129</b>	<b>130</b>	<b>131</b>
Did you receive a training on Lentil Cultivation Method?	Did you apply or practice the learnt knowledge and practices from the training?	If yes what practices did you apply in the field?	If no, could you please state reasons for not using the knowledge?	Musuro helps to balance the nitrogen level in the soil



1 - Yes 2 - No (Skip to 134)	1 - Yes 2 - No ( Skip to 130)	a) _____ b) _____ c) _____	a) _____ b) _____ c) _____	0 - False <b>1 - True</b> 2 - Don't know
<b>132</b>	<b>133</b>	<b>134</b>	<b>135</b>	<b>136</b>
Name two sources of nutrient found in Musuro	Name two fertilizers used in Musuro production	When is the best time to harvest Musuro?	How long should one dry Musuro before storing it?	One kattha of land needs 1 - 1.5 kg of seed
1 - Protein 2 - Calcium 3 - Iron 4 - Don't know	1 - DAP 2 - Potash 3 - Borax 4 - Don't know	<b>1 - When 80% is ripe</b> 2 - When 60% is ripe 3 - Whenever you think is appropriate 4 - All of the above 5 - Don't know	1 - One to Two days <b>2 - Three to Four days</b> 3 - No need to dry 4 - Don't know	0 - False <b>1 - True</b> 2 - Don't know

## SECTION F14 - WHEAT CULTIVATION

<b>137</b>	<b>138</b>	<b>139</b>	<b>140</b>	<b>141</b>
Did you receive a training on Wheat Cultivation Method?	Did you apply or practice the learnt knowledge and practices from the training?	If yes what practices did you apply in the field?	If no, could you please state reasons for not using the knowledge?	Water should not be stagnant in wheat field.

1 - Yes 2 - No (Skip to 144)	1 - Yes 2 - No ( Skip to 140)	a) _____ b) _____ c) _____	a) _____ b) _____ c) _____	0 - False <b>1 - True</b> 2 - Don't know
<b>142</b>	<b>143</b>	<b>144</b>	<b>145</b>	<b>146</b>
Wheat should be dried for 2-3 days before storage.	Name three types of wheat suitable for Terai and inner Terai:	Name two ways to prevent/treat aphid /lahi:	Name three fertilizers that can be used in wheat cultivation:	One kattha needs 4 kg of seeds
<b>0 - False</b> 1 - True 2 - Don't know	1 - BL 1135/1473 2 - Achyut 3 - Bhrikuti 4 - Gautam 5 - Don't know	1 - Mitra khapate keera 2 - Tobacco leaves with soap and water 3 - Cow urine 4 - Don't know	1 - Compost 2 - DAP 3 - Potash 4 - Urea 5 - Don't know	0 - False <b>1 - True</b> 2 - Don't know

## SECTION F15 - POTATO DISEASES AND PREVENTION

<b>147</b>	<b>148</b>	<b>149</b>	<b>150</b>	<b>151</b>
Did you receive a training on Potato Diseases and Prevention?	Did you apply or practice the learnt knowledge and practices from the training?	If yes what practices did you apply in the field?	If no, could you please state reasons for not using the knowledge?	Name two media through which black scurf can spread
1 - Yes	1 - Yes	a) _____	a) _____	1 - Infected Seed

2 - No (Skip to 154)	2 - No ( Skip to 150)	b)_____	b)_____	2 - Infected Soil 3 - Don't know
		c)_____	c)_____	
<b>152</b>	<b>153</b>	<b>154</b>	<b>155</b>	<b>156</b>
Name two media through which late blight can spread:	Name two media through which early blight can spread	Name two bacterial diseases that affect potatoes:	Name two insects that affect potato plants:	Late blight is the primary enemy of potatoes.
1 - Water, air 2 - Potato Seed 3 - Tomato and other similar plants 4 - Other nearby infected potatoes 5 - Don't know	1 - Air 2 - Soil 3 - Water 4 - Don't know	1 - Bacterial wilt or brown rot 2 - Black/soft rot 3 - Don't know	1 - Potato butterfly 2 - Red ants 3 - Potato lahi/aphid 4 - Don't know	0 - False 1 - True 2 - Don't know

## SECTION –G: NETWORK MODULE

I would like to ask you some questions about the members in your farmer's group

G.1	G.2	G.3	G.4	G.5	G.6	G.7
Are you in a farmer group?	Name of Farmers group	How many people are in the farmer's group (including yourself)?	How many people in this group are you related to?	How many have you known for more than five years?	How many would you consider friends?	How many have you asked for advice about your farm in the last year?
1 - YES 2 - NO[Skip to Sec H]	----- ----- -----	Number	Number	Number	Number	Number
G.8	G.9	G.10	G.11	G.12	G.13	G.14
How many would you trust to look after a valuable item for you? (money or jewels)	How many have you ever received a gift (of money, goods or services) from?	How many of those have you ever given a gift (of money, goods or services) to this person?	How many have you ever received a loan (of money, goods or services) from?	How many have you ever given a loan (of money, goods or services) to ?	Are you related to anyone in another farmer's group?	Have you asked anyone in another farmer's group for advice about your farm in the last year?
Number	Number	Number	Number	Number	1 - YES 2 - NO	1 - YES 2 - NO

## SECTION –G: SHOCK MODULE

H.1

H.1.1

H.1.2

Over the last year did you experience any of the following shocks or stresses?		If yes, what was the impact of the shock on your household		If yes, to what extent have you been able to recover	
	1 - Yes 2 - No (Skip -> H.2)	1-None 2-Slight (thorai) 3-Moderate (dherai) 4-Strong (Ek dum dherai)		1-did not recover 2-recovered but worse off than before 3-recovered and same as before 4-recovered and better than before	
a) Drought					
b) Flood/water logging					
c) Crop disease or crop pests					
d) Livestock disease or deaths					
e) Household business failure					
f) Loss of job/non-payment of salary					
g) End of regular assistance, aid, remittance from outside HH					
h) Large fall in sale prices of crops					
i) Large rise in prices of food					
j) Death in household					
k) Break-up of the household					
l) Illness/cholera					
m) Theft					
n) House damaged due to fire					
o) Others [H.1.0.1 SPECIFY HERE] : .....					
<b>H.2</b>		<b>H.3</b>		<b>H.4</b>	
In the past 7 days, how often has your household had to:	(FILL IN NUMBER OF DAYS FOR EACH OPTION)	Have you received assistance from anyone over the past year [ 1-Yes, 2 – No ( <b>Skip to end</b> ) ]		If yes, what was the form of assistance? [1 – Yes, 2 – No]	
1-Eat less-preferred foods?		1-Family		1-Food	
2-Borrow food from a friend or relative?		2-Farmer's Group		2-Cash	
3-Limit adult intake?		3-Community (other)		3-Education/training	
4-Limit portions at mealtime?		4-NGO		4-Employment	
5-Reduce number of meals eaten in a day?		5-Government		5-Domestic chores	
		6-None [ <b>Skip to End</b> ]		6-Other, specify	

**Thank You**