

Appendices

I. Proforma used for collecting information about farming system

A. Details of the farmer:

Name	Age	Village	Police Station	Block	District

B. Details of the family:

S.N.	Name	Sex	Relation with head of the family	Age group (year)			Level of education
				Above 60	Adult (14-59)	Children below 14	

C. Total land area in acres

Cultivable land		Non cultivable land	Under orchards	Own or rented	Total land	Single block or scattered
Irrigated	Unirrigated					

D. Water resources for

a. Household work

b. Irrigation

E. Details of crops grown

Crops	Seasons		
	Kharif	Rabi	Zaid
Cereal (Variety)			
Pulses (Variety)			
Oilseeds (Variety)			
Vegetables (Variety)			
Fruits (Variety)			
Flowers			
Any other Crop			

F. Main crop rotations

	Ist year	IInd year	IIIrd year
1			
2			
3			

G. Mixed cropping

H. Details of crops

		Crop	Area	Cultivation expenses
1.	Area			
2.	Land preparation			
3.	Seed			
4.	Manure and fertilizers			
5.	Insecticides/pesticides/herbicides			
6.	Labour involved in cultivation, sowing/ weeding/irrigation/harvesting/threshing			
7.	Average crop yield (a) grain (b) by products			
8.	Disposal Home consumption Sale Rate Total receipt from sale			

I. Details of livestock

1.	Cattle	Breed (age)	Purchased (Pu) Reared (R)	Present value	Calving interval
	Adult males Breeding Working Both				
	Adult females In milk Dry and pregnant Dry and non-pregnant				
	Young ones 1-3 years Less than 1 year				
2	Buffalo				
	Adult males Breeding Working Both				
	Adult females In milk Dry and pregnant Dry and non-pregnant				
	Young ones 1-3 years Less than 1 year				

J. Livestock feeding season wise

Season & animals	Quantity (kg/day)			Grazing (hour)	Milk production/day
	Green fodder	Dry fodder	Concentrate		
Kharif Cattle					
Buffalo					
Rabi Cattle					
Buffalo					
Zaid Cattle					
Buffalo					
Milk production/day					

K. Reproductive details

	Details of A.I.	Natural service.	Both
Efficiency of reproduction rate per service			
Amount of expenditure for conception			

L. Livestock production and disposal

	No. of animals in milk	Milk production	Disposal		Rate (Rs./lit)	Amount (Rs.)
			Consumed	Sold		
Milk Cows Buffaloes						
Meat Cows Buffaloes						
Dung etc.						

M. Use of family women/ men labour (hours) in livestock, milk production and their feeding

Activity	House wife/ man	Girl child	Girl young	Male	others
1. Feeding, watering and washing of animals					
2. Cleaning of shed, removal of dung, urine dung cakes' making arranging, putting and removal of bedding					
3. Harvesting, collecting, pasture grazing, transport of fodder					
4. Vaccination sale/purchase, giving medicine, bring medicine etc.					
5. Milking, sale of milk, storage of milk, heating, butter, curd, use of products ghee making, whey and use of annual labour					

N. Use of family women labour (man days)/day/annual in household and crop production

Activity	House wife/ man	Girl child	Girl young	Male	others
1. Clearing of house, kitchen watering cooling and other preparation					
2. House keeping, cloth washing, cloth stitching					
3. Seed preparation, seedling lifting and plantation and weeding in field					
4. Fertilizer application, helping in harvesting, grain transport, straw transport					
5. Vegetable picking/harvest, transport etc. storing, collecting, harvesting fruits and vegetables					
6. Collecting grass/sugarcane top, collecting bedding material, crushing of sugarcane, other					

O. Infrastructure and their extent of availability general information/constraints. Facilities grades as poor (*), moderate (**), and good (***)

1. Pucea road and distance	2. Medical hospital and distance
3. Veterinary hospital and distance	4. Market and distance
5. Bank and distance	6. Cooperative and distance
7. Milk collection center and distance	8. Price paid for milking and milk
9. Market for sale/purchase of animals	10. Audio visual aids
11. Demand of milk in area	12. Willingness for milk production
13. Use of animal dung in cake	14. Dung use in Gobar gas plants
15. Use of dung as FYM	16. Use of crop residues as animal feed
17. Feeding of residues as animal feed	18. Participation of women in administrative decisions
19. Decision taking power of women	
20. Problem concerned with : animal feeding, milking, sale of milk, sale of farm product etc. availability of agricultural implements and FYM, chemical fertilizers, veterinary service, loan for crop, animal, implements, availability of dry fodder, green fodder, concentrate, plantation, problems in production of food grains, pulse, oilseed, cash crops, fodder crops, availability of water for household, agriculture and animal.	

II. proforma for assessing social status of the farmer

House and its belonging : (20 marks)

Type of house : old, modern, Kuccha, Pucca (4), capacity (3), cleanliness (1) and surrounding (garden etc.) (2).

House belongings : furniture (2), furnishing (2), cupboard (1), house servant (1), water tank (1), Handpump (1), motor pump (1), water tap connection (1).

Luxury items : (20 marks)

Fridge (3), T.V. (2), Music system (3), washing machine (3), cooler, (3), Vaccum cleaner (3), geyser/solar heater (3).

Vehicle : (20 marks)

Cycle (3), Motorcycle/Scooter (7), Car/Jeep (10).

Land holding : (20 marks)

Landless, 2, 2.1-5, 5.1-10 and above 10 acres were awarded, 0, 5, 10, 15 and 20 marks respectively.

Service/Business : (20 marks)

Class I 20; Class II 15; Class III 10

and Class IV 5 marks

Figures given in the bracket are marks allotted to that item

III. Proforma for assessing infrastructure of the farmer

Availability of (50 marks allotted)

Road (3) : Kuccha-1, all weather-2, metallic-3.

Market, Bank and N.G.O. (4+4+4ss) at <2, 2-5, 5-10 and > 10 km were awarded 4, 3, 2 & 1 marks respectively in each case.

Cooperative society (2) : 1 mark for each facility of loan and storage.

Milk collection centre in vilage –10 marks and minkman-5 marks.

Hospital (3) : primary health centre-1, civil and veterinary hospital-2 and if additional AI available-3.

Availability of industry (5): sugar factory and agricultural resources (5) (Inputs-fertilizer, diesel, seed insecticide etc.) at a distance of <5, 5-10, 10-15, 15-20 and >20 km awarded 5, 4, 3, 2 and 1 marks respectively.

Educational facilities (4) : School upto intermediate in vilage, at a distance of 5, 10 and >10 km, were awarded 4, 3, 2 and 1 marks respectively.

Electricity (5) and irrigation (5) : If available 24 hrs. and own tubewell (5+5), own generator and govt. tubewell (4+4), 18 hrs. and canal water (3+3), 12 hrs, and other sources (2+2) and 6 hrs. and rainfed (1+1) marks were allotted respectively.

Infrastructure for livestock (15 marks allotted)

Cattle shed (5) : no shed, Kutcha thatched, Kutcha tinned Pucca unlantered or Pucca lantered were awarded 1, 2, 3, 4 marks, respectively.

Manager (4) : Floor feeding, Kutcha manger, pucca manger plus bucket water offering and Pucca manger and tank water offering were given 1, 2, 3 and 4 marks, respectively.

Animal feed (2) stored in open/varandah covered with plastic (1) or room and well protected from weather condition-2.

Milk storage and processing facilities (4) : Milking machine and cream separator (4), inadequate storage (2) and ghee making equipment and proper storage (3).

Agricultural implement availability (35).

Tractor + trolley (8) >5, 2-5, 1, 1 tractor only and 1 trolley for hiring were given 8, 6, 4, 2 and 1 marks, respectively.

Plough and Harrow (3+5) : own (3+5), share basis (2+3), hired (1+1).

Thresher (1), combine harvester (1), drip irrigation (1), weeding implement (1).

Electricity (2) : if own (2) : department or other (1).

Tubewell (4) : own (4), govt. (3), canal (2), other (1).

Figures in bracket are allotted or awarded.