

INTERVIEW SCHEDULE FOR DATA COLLECTION

Conducted by: Miss Kabita Mondal
Supervisor: Prof. S.K. Acharya
Department of Agricultural Extension
Bidhan Chandra Krishi Viswavidyalaya

TOPIC- SOCIAL ECOLOGY AND ENERGY CONSUMPTION PATTERN IN FARM METABOLISM

Serial No: _____ **Respondent No:** _____

Date of investigation: _____

Name of the village: _____

Gram Panchayat: _____

Block: _____

Name: _____

INDEPENDENT VARIABLES:-

a. Socio personal variables

Age (X_1): _____

Education(X_2): _____

Gender(X_3): _____

(Male: Female ratio) Family size(X_4): _____

Family education status(x_5): _____

Innovation index(X_6):-

No. of Home Innovation	
Present market price	

Occupation(X_7):-

Sl no.	Items	6 point scale
1	Labour	
2	Artisan	
3	Business	
4	Independent	
5	Farming	
6	Services	

Family MIS (Management Information System) (X_8)

MIS	TV	Radio	Newspapers	Magazine	Other farmers	Others
a)Information received						
b)Information sent						
c)Information showed						

1

b. Agro economic variables Cropping intensity(X_9)

$$\frac{\text{Total annual cropped area} \times 100}{\text{Size of holding}}$$

Farm size(X_{10})

$$\frac{\text{Actual farm holding}}{\text{Size of family}}$$

Total expenditure

i) Expenditure incurred on food annually	
ii) Expenditure incurred on clothes annually	
iii) Expenditure incurred on education annually	
iv) Expenditure incurred on farming annually	
v) Expenditure incurred on health annually	

Expenditure allotment (X_{11})

$$\frac{\text{Expenditure incurred on farming annually} \times 100}{\text{Total expenditure}}$$

Credit load(X_{12})

$$\frac{\text{Credit outstanding}}{\text{Size of family}}$$

Annual income(X_{13})

$$\frac{\text{Total income in a year}}{\text{Family size}}$$

Irrigation index(X_{14})

$$\frac{\text{Area of the land under irrigation}}{\text{Total land holding size}}$$

Crop diversity index(X_{15})

$$\frac{\text{Total number of crop raised}}{\text{Land holding under cultivation}}$$

Crops energy productivity(X_{16})

Crops	Physical productivity	Economic productivity	Energy productivity

Adoption index(X_{17})

Field Crops

Change items	Recommendation	Adoption	Ratio(A/R)
Seed			
Fertilizer			
PPC			
Irrigation schedule			
Method of cultivation			
Others			
Horticultural Crops (Vegetables & Fruits)			
Change items	Recommendation	Adoption	Ratio(A/R)
Seed			
Fertilizer			
PPC			
Irrigation schedule			
Method of cultivation			
Others			

Size on water bodies(X₁₈)

Pond(No.)	Distance	Pond size	Use index(10 point)	Water depth
			Fishery	
			Home purpose	

Cattle holding and economics(X₁₉)

	Cow	bull	calves	Sheep/goat	poultry	Others
Numbers						
Cost of maintenance						
Milk production						
Market price of milk						
Meat production						
Market price of meat1						
Quantity of available dung						
Home consumption						
Marketed surplus						

Cattle energy balance (Y₁) : - [(Fodder + water intake) – (Milk + cowdung production)]
/cattle Energy equivalence of cow dung (Y₂)

	Quantity	Market price	Energy equivalent
Farm			
Family			
Sold			

Crop energy metabolism (Y₃)

Crop	Fertilizer(EEq)	Irrigation(EEq)	Ploughing(EEq)	PPC(EEq)	Yield(EEq)

Energy consumption in farm family (Y₄)

Items	Source	Unit	Amount/volume	EEq	Money Eq
Electricity					
Fuel					
Fuel(vehicle)					
LPG					
Traditional Fuel					
Others					
Total					

Perceived impact on energy consumption (Y₅)

Famil y code	Famil y size	Source and distanc e	amou nt	Per capit a	Tot al cost	Per capit a	impact			
							econom ic	soci al	occupatio nal	ecologic al

A. Food intake by family (Farm men and farm women)

Item	Volume	Energy(calorie)
Rice		
Dal		
Fish		
Vegetables		
Egg		
Milk		
Meat		
Fruits		
Others		

B. Engagement in farm

Engagement	Time(hrs)	Energy(calorie)
Farm operations		
Service		
Travelling and walking		
Schooling		
Domestic others		

Farmer's energy metabolism (Y_5):- [Food intake by farmer (A) – Farm engagement (B)].