



Questionnaire Survey to Assess the Qualitative and Quantitative Constraints of Buffalo Farming in Bangladesh

Objectives:

1. Identify the qualitative and quantitative constraints of buffalo farming in Bangladesh.

Declaration: I have answered all the questions in the interview sheet and I have full consent about the information given. Best of my Knowledge, the information given by me is correct and can be used in research. If necessary, the researcher can contact me for further information or vice versa in future.

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Interviewee signature

Farm ID:

Date: / /

1. General information:

1.1: Interviewee Name:			1.2: Mobile no:		
1.3: Gender: ☐ Male ☐ Female			1.4: Age:		
1.5: Location	Village:	Union:	Upazilla:		
1.6: GPS coordinates Latitude (Degree):			Longitude (Degree):		
Altitude (m):					
1.7: Title of Interviewee:	☐ Owner	☐ Manager	☐ Other		
1.8: Educational status:	☐ Illiterate	☐ Primary	☐ Secondary	☐ Graduation	
1.9: Farm type:	☐ Household	☐ Commercial	☐ Semi Bathan	☐ Bathan	☐ Semi intensive
1.10: Composition of farm	Milking buffaloes:	Heifers:	Calves:	Bulls:	
	Pregnant:	Dry buffalo:	Total no of buffalo:		

1.11: Milk production (Today)					
1.12: Purpose of rearing	☐ Milk	☐ Meat	☐ Draught	☐ For Calf	☐ All

2.Housing/ Rearing Constraints:

2.1: Do you have separate house for buffaloes?	☐ Yes	☐ No
2.2: How much space (m ²) is available per buffalo indoor?		
2.3: Do you have any record book?	☐ Yes	☐ No
2.4: If yes, what kind of record do you maintain?	☐ Witten record	☐ Digitalized
2.5: Is there any wallowing area for the buffaloes?	☐ Yes	☐ No
2.6: Do you have available wallowing water across the year?	☐ Yes	☐ No

2.7	Main housing/ rearing constraints	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
2.7.a	Lack of separate housing for the buffalo					
2.7.b	Lack of available wallowing water/mud around the year					
2.7.c	Lack of enough space for the buffalo					
2.7.d	High construction cost of shed					
2.7.e	Unavailable skilled labor in the farm					

3.Feeding and Nutrition Constraints (Household/Intensive/Semi-bathan):

3.1: What do you feed to the buffalo?			
3.2: Do you feed dry/ green roughage to the buffalo when kept in the stall?	☐ Yes	☐ No	
3.3: If yes, amount (kg)/ buffalo/day			
3.4: Is there available grazing land for the buffaloes?	☐ Yes	☐ No	
3.5: Do you feed concentrate to the buffaloes?	☐ Yes	☐ No	
3.6: If yes, amount (kg)/ buffalo/day			
3.7: If no, what are the potential reasons?	☐ High price	☐ Not available	☐ Don't want to

			feed
3.8: What is the Price per kg concentrate (Tk)			
3.9: Do you feed vitamin and mineral supplements to the buffaloes?	☐ Yes	☐ No	
3.10: Do you have knowledge about balanced ration?	☐ Yes	☐ No	
3.11: Do you practice it?	☐ Yes	☐ No	
3.12: If no, do you like to have training on balanced ration?	☐ Yes	☐ No	
3.13: Do you have any knowledge about the preparation of UMS/ UMB/ Silage?	☐ Yes	☐ No	
3.14: If no, do you like to learn it?	☐ Yes	☐ No	
3.15: Do you practice stall feeding?	☐ Yes	☐ No	
3.16: Is there available drinking water for the buffaloes?	☐ Yes	☐ No	

3.17: How do you feed your buffaloes in Bathan?	☐ Only grazing	☐ Grazing with supplement
3.18: Do you feed concentrate to the buffaloes in Bathan?	☐ Yes	☐ No

3.19	Availability of roughage around the year	Abundant availability	Enough available	Moderate available	Less available	Not available
3.19.a	Availability at Summer					
3.19.b	Availability at Rainy season					
3.19.c	Availability at Winter season					

3.20	Main feeding constraints	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
3.20.a	Unavailability of green and dry roughage around the year					
3.20.b	Lack of available grazing land					
3.20.c	The quality of roughage is poor					
3.20.d	High price of concentrate feed					

3.20.e	Lack of enough knowledge about balanced ration					
3.20.f	Lack of knowledge about silage/UMS/UMB preparation					
3.20.g	Lack of drinking water source in the farm					
3.20.h	Unavailable mineral mixture					

4. Breeding constraints:

4.1: Do you have any breeding bull?	☐ Yes		☐ No	
4.2: If yes, how many per farm?				
4.3: If yes, how many per herd? (Bathan)				
4.4: What is the bull and cow ratio in the herd? (Bathan)				
4.5: What is the name of the breed?				
4.6: How do you inseminate your buffalo cow?	☐ Bull	☐ AI	☐ Both	
4.7: If bull, what is the source of the bull?	☐ Own bull	☐ Other's bull	☐ Both	
4.8: Do you know about AI?	☐ Yes		☐ No	
4.9: If yes, why don't you practice AI?	☐ Not available	☐ Costly	☐ Both	
4.10: If practicing AI, is there trained AI technician available?	☐ Yes		☐ No	
4.11: How do you detect heat in your buffalo?	☐ With the help of bull	☐ Observation	☐ Both	
4.12: Do you face problem in heat detection?	☐ Yes		☐ No	
4.13: If yes, what problem are you facing?				
4.14: What is the average calving interval?				
4.15: Is there any incidence of abortion or post-partum complication over the last on year?	☐ Yes		☐ No	
4.16: If yes, what were the reasons?				

4.17	Main breeding constraints	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
4.17.a	Lack of good breeding bull					
4.17.b	Unavailable AI facility					
4.17.c	Unavailability of quality semen					
4.17.d	Lack of skilled AI technician					
4.17.e	Poor conception rate of AI					
4.17.f	Infertility is a problem of buffalo rearing					
4.17.g	Lack of enough knowledge about heat detection					
4.17.h	Repeat breeding is a problem for buffalo rearing					
4.17.i	Farmers prefer natural service over AI					

5. Health and Disease constraints:

5.1: What are the most common diseases of buffaloes?			
5.2: Do you vaccinate your buffaloes regularly?	☐ Yes	☐ No	
5.3: If yes, what are is/are the vaccines?			
5.4: Do you practice regular deworming?	☐ Yes	☐ No	
5.5: If yes, what anthelmintics do you use?			
5.6: Is there any epidemic outbreak in last one year?	☐ Yes	☐ No	
5.7: If yes, what is the disease?			
5.8: Is there available veterinary services in your area?	☐ Yes	☐ No	
5.9: What do you do if animals get sick?	☐ Contact with Veterinarian	☐ Contact local Quack	☐ Self-treatment
5.10: What is the calf mortality rate in your farm?			

5.11	Main health and disease constraints	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
5.11.a	Unavailable timely veterinary service					
5.11.b	Insufficient medicine supply					
5.11.c	Lack of sufficient vaccine					
5.11.d	Lack of enough knowledge about vaccination					
5.11.e	Lack of enough knowledge about deworming					
5.11.f	High calf mortality is problem					
5.11.g	Veterinary hospital/ facilities are remote					

6.Economic constraints:

6.1: Do you have your own capital?	☐ Yes	☐ No
6.2: Do you get any financial support(subsidy) from government or NGOs?	☐ Yes	☐ No
6.3: Have you taken any loan from NGOs or bank?	☐ Yes	☐ No

7.Marketing constraints:

7.1: Do you sell milk in the market?	☐ Yes	☐ No
7.2: What is the distance between farm to market?		
7.3: Is this distance is a problem for marketing?	☐ Yes	☐ No
7.4: What is the price of milk (Tk)?		
7.5: Is it change according to season?	☐ Yes	☐ No
7.6: Is the price enough for you round the year?	☐ Yes	☐ No
7.7: Is there any chilling canter nearby your farm?	☐ Yes	☐ No
7.8: Is there any milk co-operative in your area?	☐ Yes	☐ No
7.9: How do you transport your milk to the Market?	☐ Bicycle	☐ Van ☐ Boat
7.10: Is it costly?	☐ Yes	☐ No

7.11: Do you get your payments regularly?	☐ Yes	☐ No
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7.12	Main economic and marketing constraints	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
7.12.a	Lack of own capital					
7.12.b	Lack of financial support from govt. or NGOs					
7.12.c	High interest rate of loan					
7.12.d	Low price of milk in the market					
7.12.e	High transportation cost					
7.12.f	Unavailable preservation/ chilling center near the farm					
7.12.g	Irregular payment system					
7.12.h	Lack of awareness among general people about benefit of buffalo milk					

8. Perception Constraints:

8.1: What do you think about the quality of buffalo milk?	☐ Good	☐ Not good	☐ Same as cattle	☐ Others
8.2: What your neighbor thinks about eating buffalo milk and meat?	☐ Cause disease	☐ Good for health	☐ Costly	☐ Others
8.3: What your neighbor thinks about rearing buffalo in terms of economy?	☐ Profitable	☐ Not profitable	☐ Others	
8.4: What your neighbor thinks about rearing buffalo in terms of social status?	☐ Prestigious	☐ As usual	☐ Filthy	☐ Others
8.5: Do you think buffalo milk cause indigestion if drink it regularly?	☐ Yes		☐ No	
8.6: Can buffalo milk cause helminth problem in children/ adult?	☐ Yes		☐ No	
8.7: Do you think eating buffalo milk and meat can cause buffalo like skin and hair or something	☐ Yes		☐ No	

else in human body?		
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9.Others:

9.1: Have you got any training on buffalo farming from government or NGOs?	☐ Yes	☐ No/Never
9.2: Is there any livestock extension service available?	☐ Yes	☐ No
9.3: Do you agree to form an association to address problems?	☐ Yes	☐ No
9.4: Do you have available labour?	☐ Yes	☐ No

10. What are the five main supports you need to sustain/ expand your buffalo farming?

SL No	Support
01	
02	
03	
04	
05	