

Health and Biosecurity problems in carp farming

1. Farmer details:

i. Farmer name:

ii. Mobile/email/contract details:

Mobile

email

contract details

iii. Farmer age:

iv. Gender:

Male

Female

v. Education:

- No education
- Primary (1-5)
- Higher Secondary (6-12)
- University (Bachelor/MS/more)

vi. Occupation:

Primary occupation:

Secondary occupation:

viii. Farming experiences (Years):

2. Farm details:

i. Farm name:

ii. Address of the farm:

Village

Union

Sub-districts/Upazila

District

ii. Total Farm area

In decimal

iv. Total water spread area

In decimal

v. Number of ponds in the farm:

vi. Farm type:

- Seasonal
- perennial

vii. Culture type:

- Monoculture
- Polyculture

viii. Source of water:

- Ground water
- River or canal
- Rain
- Nearby farm
- others

If others please specify

3. Stocking information:

i. Species:

a. Carp species:

- Rohu Catla Silvercarp grass carp Mrigala Others
- common carp bighead carp Others

i. Species:

b. Catfish:

- Pangus Walking catfish Stinging catfish Tengra Others

i. Species:

c. Other freshwater species:

- Tilapia Climbing perch Snakehead Silver barb Freshwater prawn
 Others

i. Species:

d. Brackish water species:

- Seabass mullet milkfish Shrimp Others
-

ii. Source of fingerling:

- hatchery
- nursery
- wild caught
- incoming water

iii. Stocking number (total):

iv. Average percentage of Carp stocked?

4. Disease's information (In carp species)

i. Have you experienced any unusual mortality/diseases in carp species during last production cycle?

- Yes
- No

ii. If yes, Month and year of onset mortality/diseases?

yyyy-mm-dd

iii. Nature of mortality/diseases?

- Sudden
- Gradual
- Occasional
- Multiple events

iv. Duration of mortality/diseases?

- Within a day
- Within a week
- Within a fortnight
- Within a month
- More than a month

v. Percentage of total mortality ?

vi. Age and size of fish during diseases/mortality?

Culture days during diseases/mortality

Weight of fish during diseases/mortality

vii. Major clinical sign observed by the farmer?

- Exophthalmia
- Shrinkage of eye
- Eye opacification
- Hemorrhages on skin and body surface
- Lesion
- Fin rot
- Tail rot
- Scale protrusion
- Abdominal distension
- Gill paleness
- Gill rot
- Others

If others, please specify

viii. Major behavioral changes

- Erratic swimming
- Appetite
- No schooling
- Others

If others, please specify

ix. How do you dispose the dead fish?

- Collect and discard to nearby river or canal
- Collect and buried on farm
- Collect and buried off farm
- Burnt
- Fed to another animal on farm
- Sale to the market
- Fish did not remove from the pond
- Others

If others, please specify

x. Any treatment used?

a) Chemical treatment?

- Yes
- No

If yes please specify

Is the treatment effective?

- Yes
- No

b) Antibiotic treatment?

- Yes
- No

If yes please specify

Is the treatment effective?

Yes

No

c) Probiotic treatment?

Yes

no

If yes please specify

Is the treatment effective?

Yes

No

d) Other treatment?

Yes

No

If yes please specify

Is the treatment effective?

Yes

No

xi. Do you send any sample for diseases diagnosis?

Yes

No

If yes what was the diagnosis report?

5. Biosecurity Practices

i. Biosecurity followed during pond preparation

a) Fallow period:

- No fallow period
- 1 week
- Fortnight
- Month
- More than a month

b) Pond bottom drying:

- Yes
- No

c) Ploughing:

- Yes
- No

d) Bleaching:

- Yes
- No

If yes dose of bleaching

Kg/Decimal

e) Liming:

- Yes
- No

If yes dose of liming

Kg/Decimal

f) Other chemical treatment:

- Yes
- No

If yes, please specify the name

ii. Biosecurity followed during stocking

a) Vehicle tyre bath at the entry:

- Yes
 No

b) Fish disinfection:

- Yes
 No

c) Fish transport water discarded off farm:

- Yes
 No

d) Fish health inspection/quarantine before stocking:

- Yes
 No

e) Introduction of new stock with old stock:

- Yes
 No

iii. Use of on farm biosecurity

a) Farm perimeter fence?

- Yes
 No

b) Restriction of entrance for general people?

- Yes
 No

c) Restriction of entrance for domestic or other animals?

- Yes
 No

d) Vehicle disinfection?

- Yes
 No

e) Footbath?

- Yes
- No

f) Hand disinfection?

- Yes
- No

g) Equipment disinfection?

- Yes
- No

h) Shared equipment with other farm/s?

- Yes
- No

i) Hired harvester?

- Yes
- No

j) Hired harvesting equipment?

- Yes
- No

k) Disinfection guideline for visitor?

- Yes
- No

iv. Biosecurity practices after diseases outbreak/mortality event

a) Follow complete harvesting:

- Yes
- No

b) Disinfect pond water:

- Yes
- No

If yes how? Please specify name and dose of treatment used

c) Continue production cycle without any disinfection:

- Yes
- No

e) Any observation of similar diseases occurrence again and again?

- Yes
- No

If yes how frequent

- 2 times a year
- 3 times a year
- 4 times a year
- last year and this year
- Continuing for last few years

Severity of the diseases during multiple events?

- More severe than earlier
- Less severe than earlier
- Similar with earlier

6. Farmer's observation and opinion

i. Any stressor factor for diseases occurrences? Please specify

ii. Any diseases occurrences in nearby farms and spread from that farm to his farm?

- Yes
- No

if yes was it similar types with the neighbor farm?

- Yes
- No

iii. What measures farmer take to prevent diseases occurrences? Please specify

iv. Did he received any training on biosecurity?

- Yes
- No

v. What support he needs to follow proper biosecurity for farming?

vi. Any other information he would like to provide:
