

# Health and Biosecurity problems in carp farming

1. Farmer details:

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i. Farmer name:

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ii. Mobile/email/contract details:

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**Mobile**

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**email**

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**contract details**

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iii. Farmer age:

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iv. Gender:

☐ Male

☐ Female

**v. Education:**

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

**vi. Occupation:**

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**Primary occupation:**

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**Secondary occupation:**

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**viii. Farming experiences (Years):**

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**2. Farm details:**

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**i. Farm name:**

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**ii. Address of the farm:**

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**Village**

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**Union**

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**Sub-districts/Upazila**

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**District**

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**ii. Total Farm area***In decimal*  

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**iv. Total water spread area***In decimal*  

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**v. Number of ponds in the farm:**  

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**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**

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**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

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**i. Species:**

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**c. Other freshwater species:**

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☐ Tilapia ☐ Climbing perch ☐ Snakehead ☐ Silver barb ☐ Freshwater prawn  
☐ Others

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**i. Species:**

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**d. Brackish water species:**

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☐ Seabass ☐ mullet ☐ milkfish ☐ Shrimp ☐ Others

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**ii. Source of fingerling:**

- ☐ hatchery
- ☐ nursery
- ☐ wild caught
- ☐ incoming water

**iii. Stocking number (total):**

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**iv. Average percentage of Carp stocked?**

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**4. Disease's information (In carp species)**

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**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

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**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 ?**

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

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**Culture days during diseases/mortality**

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**Weight of fish during diseases/mortality**

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**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**

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**viii. Major behavioral changes**

- ☐ Erratic swimming
- ☐ Appetite
- ☐ No schooling
- ☐ Others

**If others, please specify**

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**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**

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**x. Any treatment used?**

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**a) Chemical treatment?**

- ☐ Yes
- ☐ No

**If yes please specify**

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**Is the treatment effective?**

- ☐ Yes
- ☐ No

**b) Antibiotic treatment?**

- ☐ Yes
- ☐ No

**If yes please specify**

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**Is the treatment effective?**

☐ Yes

☐ No

**c) Probiotic treatment?**

☐ Yes

☐ no

**If yes please specify**

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**Is the treatment effective?**

☐ Yes

☐ No

**d) Other treatment?**

☐ Yes

☐ No

**If yes please specify**

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**Is the treatment effective?**

☐ Yes

☐ No

**xi. Do you send any sample for diseases diagnosis?**

☐ Yes

☐ No

**If yes what was the diagnosis report?**

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5. Biosecurity Practices

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i. Biosecurity followed during pond preparation

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**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*

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**e) Liming:**

- ☐ Yes
- ☐ No

**If yes dose of liming***Kg/Decimal*

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**f) Other chemical treatment:**

- ☐ Yes
- ☐ No

**If yes, please specify the name**

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ii. Biosecurity followed during stocking

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**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**

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**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

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**a) Follow complete harvesting:**

- ☐ Yes
- ☐ No

**b) Disinfect pond water:**

- ☐ Yes
- ☐ No

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

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**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?**

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**vi. Any other information he would like to provide:**

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