Government of Assam
Assam Rural Infrastructure and Agricultural Service Project Society

E984
Volume 4

Assam Agriculture Competitiveness Project
(World Bank Funded)

FINAL REPORT
Specimen Environmental Management Plans
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SPECIMEN ENVIRONMENT MANAGEMENT PLANS

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INTRODUCTION

Environmental Management Plans (EMPs) shall be prepared for AACP interventions likely to have significant impacts that cannot be fully addressed in the ECP provisions. The procedure for categorization is presented as Annexure 1. These specimens EMP provide guidance to the beneficiaries, field officers and the Directorates towards preparation and implementation of the EMP. The specimen EMP comprises of the following:

- Checklist to identify and assess impacts
- Site-specific management plans and designs, and,
- Institutional and Reporting arrangements.

**Categories of Project**

Based on the environmental sensitivity, the interventions have been classified into the following categories.

- **Category V**, where the expected impacts are small in scale, and can be addressed through standard measures suggested in the Environmental Codes of Practice (ECP).
- **Category M**, where impacts are larger and more complex than Category V projects. Given that these interventions have certain pre-identified issues, there is no requirement of a detailed Environmental assessment. However, these interventions would require the incorporation of mitigation/management measures specific to the site in the design and execution of the projects.
- **Category H**, where potential impacts involve significant environmental risks, thereby requiring a full Environmental Assessment. The inclusion of these interventions shall be determined by the PIU and the executing agencies based on the necessity and benefits.

The specimen EMPs have been prepared in each of the sectors are presented in Table 1.

<table>
<thead>
<tr>
<th>Sector</th>
<th>Proposed Intervention</th>
<th>EMP reference No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture</td>
<td>Horticulture Plantation in Surrounding of National Park, Reserve Forest in radius of 1km</td>
<td>EMP AGRI –1</td>
</tr>
<tr>
<td>Fishery</td>
<td>Fish Seed Producers Large-scale Chinese carp hatchery requiring 40kg or</td>
<td>EMP FISHERY –1</td>
</tr>
</tbody>
</table>
EMP PREPARATION APPROVAL AND IMPLEMENTATION

Step 1: Preparation of EMP
EMPs shall be prepared by the individual beneficiaries with technical inputs from the field officers and advised by the Environmental officer of the department. The prospective beneficiary for all interventions categorized as Category B project shall complete the EMP checklist along with the requisite documents and submit in triplicate to the District level officer of the respective department.

Step 2: Scrutiny of EMP
The District Officers shall verify and scrutinize the EMPs. The scrutiny process shall identify and inform the beneficiary within 21 working days of the "receipt of the application", additional information required if any. EMPs complete in all respect shall be forwarded to the Environment cum technical Officers within 21 days of the "receipt of the application".

Step 3: Ratification by Directorate
The Environment cum Technical Officer shall assess the feasibility of the measures suggested in the action plan and provide his comments or recommendations (including development of necessary terms and conditions for approval of the project) within 60 working days of the "receipt of the application". The Environment cum Technical Officer shall forward EMPs, to the EMU after the incorporation of suggestions and recommendations on the EMPs.

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1 District Agriculture Officer, District Fishery Development Officer, District Veterinary Officer, and District Dairy Development Officer respectively for each discipline.

2 The Date of receipt shall be the date on which the beneficiary submits his the EMP in the office of the District Officer of the Concerned District. All subsequent time frames shall be calculated from this date onwards.
Step 4: Approval by EMU
The EMU on receipt of the recommendations of the Environment cum Technical Officer shall issue a Certificate to the beneficiary detailing the terms and conditions that have to be complied during implementation within 75 days of the “receipt of the application”.

Step 5: Enrolment as Beneficiary
After obtaining the Certificate on EMP approval from the EMU, the District Officer of the respective department shall enroll the applicant as a beneficiary in the project.

Monitoring of EMP
District Level Officers shall monitor the EMP and non-compliance of the EMP shall be intimated to the beneficiary along with a specified time frame for compliance, which shall not be less than 60 days from the date of intimation. Non-compliance of timeframe shall be considered a case deemed fit for disqualification as beneficiary from the project.

Correspondence to the Beneficiary
The district level officer shall be contact person for the beneficiaries. All correspondence, comments by the District Officer to the prospective beneficiary/beneficiary shall be under the signature of the concerned officer by registered post. The beneficiary shall be provided a time limit of 30 working days to furnish additional information or provide documents requested. The Beneficiary shall have full access to his documents at all time with prior permission of the concerned authority.

Institutionalization of EMP
The institutional requirements for implementation of EMP is presented in Figure 1.
Assam Agricultural Competitiveness Project

**TIME FRAME**

- **Preparation of EMP**
  - Beneficiary

  - **Scrutiny & Verification**
    - District Officer

  - **Ratification by Directorate**
    - Environment cum Technical Officer

  - **Certificate of Approval of EMP**
    - Environment Specialist

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**Legends**

- All time frames are calculated from date of receipt of application

- Communication to Beneficiary

- Communication to Official

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**Figure 1: Process of Preparation & Ratification of EMP.**
Environment Management Plan for Horticulture Plantation in Surrounding of National Park in radius of 1km in Assam Agriculture Competitiveness Project

(This is essential to be filled by the receiving officer)

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(This number has to be quoted in all correspondence)

Date of Receipt of Application

Accompanying form in triplicate to be submitted by the applicant of which one copy shall be returned to the applicant

<table>
<thead>
<tr>
<th>Name, address, telephone number of Environment cum Technical Officer</th>
<th>Name, address, telephone number of District Agriculture Officer</th>
</tr>
</thead>
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Explanatory note for filling in Application form for Consent/ Authorization

(1) Any applicant knowingly giving incorrect information or suppressing any information pertaining to any of the items of the application shall be liable for disqualification as beneficiary under Assam Agriculture Competitiveness Project at any time during the Project.

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(3) If any of the items is not relevant to the activity of the applicant, please state 'Not Applicable'.

(4) If the space for reply provided for any item is inadequate, use additional sheets, duly referenced.

(5) The form shall be accompanied by the relevant documents specified on the last page on the Application Form.


(To be returned to the Applicant)

Environment Management Plan document contains all essential documents stated at the end of application

Box

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Date of Receipt of Application

Agri-1
## Brief Details

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Type of Crops to be Cultivated</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Area for Cultivation</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Location of the Area</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Current Land use of Area</td>
<td></td>
</tr>
</tbody>
</table>

### 1. Type of Crops to be Cultivated
- [ ]

### 2. Area for Cultivation
- [ ] ha

### 3. Location of the Area
- [ ]

### 4. Current Land use of Area
- [ ]

#### Is the land selected for horticulture
- [ ] Yes
- [ ] No

#### If answer to 1 is Yes then:
- [ ]

### AREA LEVEL INFORMATION

#### What is the distance of major stream from Plantation area?
- [ ] <250m
- [ ] 250-500m
- [ ] 500-1000m

#### Flow and Velocity of the major stream draining the Plantation area
- [ ] cusec m/s

#### What is the average rainfall received in a year?
- [ ] mm

### PESTICIDES USAGE INFORMATION

#### What are the types of pesticides, which will be used?
- [ ]

#### What is the quantity of pesticides which will be used?
- [ ] per hectare

### FERTILIZERS USAGE INFORMATION

#### Is soil test being carried out to assess the soil nutrient demand?
- [ ] Yes
- [ ] No

#### Fertilizer requirement per hectare (in N, P, K Kg)
- [ ]

### PROCESSING UNIT DETAILS

#### Is processing unit also located within the plantation area?
- [ ] Yes
- [ ] No

#### What will be the source of water?
- [ ] Surface Water
- [ ] Ground Water

#### What will be the water requirement of processing plant?
- [ ] kilo litre per day

#### What will be the amount of Wastewater generated?
- [ ] Kilo litre per day

#### Is the processing plant has provision for treatment plant?
- [ ] Yes
- [ ] No

#### What will be the option for wastewater disposal?
- [ ] In Water
- [ ] On Land

#### What will be the amount of solid waste generated?
- [ ] kg/day

#### How the solid waste disposal will be done?
- [ ]

---

1. Upstream is defined as the area located at high land or up ward side of restricted area.

**Agri-2**
### Assam Agricultural Competitiveness Project

**Documents to be attached**

- Location map and drainage plan
- Copy of soil tests results
- Details of Composition of waste
- Consent to Establish & Operate

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*Agri-3*
Environment Management Plan for
Fish Seed Producers
Large-scale Chinese carp hatchery requiring 40kg or above brood fish in single operation or having a capacity
to produce 10 million eggs in one batch
in Assam Agriculture Competitiveness Project

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(This number has to be quoted in all correspondence)

Date of Receipt of Application

Accompanying form in triplicate to be submitted by the applicant of which one copy shall be returned to the applicant

Name, address, telephone number of Environment
cum Technical Officer

Name, address, telephone number of District
Fishery Development Officer

Explanatory note for filling in Application form for
Consent/Authorization

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(To be returned to the Applicant)

Environment Management Plan document contains all essential documents stated at the end of application □

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Date of Receipt of Application

Fishery-1
Part A: Expansion of Existing Operation

1. Features
   a) Location of the Area with postal address and Registration number.
   b) How long have you been involved in fish seed production? ___ yrs.
   c) Type of Hatchery
   d) Specify: Spawning and incubation pools and their numbers.
   e) Total Farm Area(sqm)
   f) Number & types of ponds with size (sq.mt)
   g) Approximate quantity of Fish Seed expected to be produced in a season.
   h) Give details of last three years fish seed production (Total spawns sold year wise in million numbers):

<table>
<thead>
<tr>
<th>Year</th>
<th>No of Brood Fish (Kg)</th>
<th>No of Spawns (No)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   i) Fish breeding period: From __________ To __________

2. Review of Operations
   1. Indicate fish species that are induced bred in your hatchery?
      - Rohu
      - Gonius
      - Mrigal
      - Silver Carp
      - Common carp
      - Catla
      - Grass Carp
      - Clarias gariepinus (Thai magur)
      - Pangasius sutchi
      - Tilapia
      - Big head carp
      - Other Species (Specify)

2. Current stock of brood fishes (Kg) in your farm? Give details species wise; (Furnish the Details in Appendix 1)

3. Have you undergone any training on fish breeding and quality fish seed production? □ Yes □ No

4. Do the male and female brood fishes originate from two different lines? □ Yes □ No

5. Have you ever estimated Effective population size of your farmed brood fish. □ Yes □ No

6. Total amount of brood fish(in Kg) required for seed production in one operation.: Give mean value:

7. Furnish information on pedigree of brood stock

8. Have you come across any individual fish with poor constitutional conditions or □ Yes □ No
with poor constitutional conditions or anatomical abnormalities in your hatchery?

9. How often do you replenish your farmed brood stocks? □ 1yr □ 2yr
   □ 3yr □ Never

10. Have you ever bred fishes, which are closely related (For e.g.: between brothers & sisters or parents & offspring’s)
    □ Yes □ No

11. Do you breed various fish species together in the same breeding pool in one batch?
    □ Yes □ No

12. Do you have a specific breeding plan?
    (Attach the plan)
    □ Yes □ No

13. Are you aware about the ill effects of inbreeding and mixed spawning?
    □ Yes □ No

14. Have you ever come across any hybrid fish produced as a result of mixed spawning in your hatchery?
    □ Yes □ No

To be filled by one, who is planning to breed exotic species

15. Which are the following exotic fish species you are currently culturing in your farm?
    □ Clarias gariepinus (Thai magur) □ Pangasius sutchi
    □ Tilapia □ Big head carp
    □ Any other (Specify)

16. Is your farm affected by periodic flood?
    □ Yes □ No

17. If yes what sorts of precautions have you undertaken to prevent escape of your farmed fish (especially the exotic varieties) to natural environment? (attach details of precautionary measures with drawings)

Acquiring Brood stock

18. What is the amount of stock that would be acquired (Detail species wise number and weight of Bloodstock being acquired in format in Appendix 2)

19. What are the sources of brood stock collection (Attach details, Name of natural water/ hatchery/farmer/organization with postal address, registration number (if any))

Designing of Infrastructure

20. What is the diameter of the spawning pool (in ft/mt)?
21. What is the proposed height of the pond or tank? (to be filled only in case of breeding & culture of exotic species)

☐ higher than HFL  ☐ Lower than HFL

Operation

22. Has a breeding plan been prepared? (attach the breeding plan)

☐ Yes  ☐ No

Maintenance of Pond

23. In case of additional water requirement is there any record of the source and quantity of water?

☐ Yes  ☐ No

24. Are you maintaining records of your farm? If yes, attach the types of records that have been maintaining.

☐ Yes  ☐ No

Specify_________

25. Are you maintaining proper water quality in your farm ponds and hatchery?

☐ Yes  ☐ No

26. If yes: what are the water parameters you usually measure and how do you measure them? (Attach details of report in format presented in Appendix 3)

27. What are chemicals and drugs used in your hatchery? Yes/ No.

☐ Yes  ☐ No

List them________

Documents to be attached

Appendix 1: Declaration of Stock

☐

Specific Breeding Plan

☐

Details of Precautionary measures in ponds for breeding exotic fishes

☐

Appendix 2: Details of Brood Fish and supplier.

☐


☐
Part B: New Operation

1. Features
   a) Location of the Area with postal address.
   b) Type of Hatchery:
   c) Specify: Spawning and incubation pools with dimensions and their numbers.
   d) Total Farm Area(sqm)
   e) Number & types of ponds with size( sq.mt)
   f) Approximate quantity of Fish Seed expected to be produced in one season.

Planning of Operations
1. Have you undergone any training on fish breeding and quality fish seed production? □ Yes □ No
2. Names of fish species to be induced bred
3. Have you prepared a breeding plan? (Attach the plan) □ Yes □ No
4. Is your farm affected by periodic flood? □ Yes □ No
5. If yes what sorts of precautions have you undertaken to prevent escape of your farmed fish (especially the exotic varieties) to natural environment? (Attach details of precautionary measures with drawings)

Acquiring Brood stock
7. Have you ever estimated Effective population size of farmed brood fish? □ Yes □ No
8. What is the amount of stock that would be acquired (Detail species wise number and weight of Bloodstock being acquired in format in Appendix 2)
9. What are the source of brood stock collection? (Attach details, Name of natural water bodies/hatchery/farmer/organization, postal address, Registration Number (if any))

Designing of Infrastructure
10. What is the diameter of the spawning pool? (ft/mt)

11. What is the proposed height of the pond or tank? (to be filled only in case of breeding & culture of exotic species) □ higher than HFL □ lower than HFL

Operation
12. (a) Has a breeding plan been prepared? (Attach the breeding plan) □ Yes □ No
   (b) Do you rear surplus fish seeds of last season in your fish farm to use as brood stock next year □ Yes □ No
in your fish farm to use as brood stock next season?

**Maintenance of Pond**

13. In case of additional water requirement is there any record of the source and quantity of water? □ Yes □ No

14. Is there any plan for maintaining records of your future? If yes, attach the types of records that have been planned.
□ Yes □ No

15. Are you maintaining proper water quality in your farm ponds and hatchery? □ Yes □ No

16. If yes: what are the water parameters you usually measure and how do you measure them? (Attach details of report in format presented in Appendix3)

**Documents to be attached**

<table>
<thead>
<tr>
<th>Specific Breeding Plan</th>
<th>□</th>
</tr>
</thead>
<tbody>
<tr>
<td>Details of Precautionary measures in ponds for breeding exotic fishes</td>
<td>□</td>
</tr>
<tr>
<td>Appendix 2: Details of Brood Fish and supplier.</td>
<td>□</td>
</tr>
</tbody>
</table>
## APPENDIX 1: Stock Declaration

<table>
<thead>
<tr>
<th>Fish Species</th>
<th>Number</th>
<th>Max age</th>
<th>Min age</th>
<th>Avg age</th>
<th>Max weight</th>
<th>Min weight</th>
<th>Avg weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Labeo rohita</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td><em>Labeo bata</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td><em>Labeo calbasu</em></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Labeo gonius</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mrigal</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Catla</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silver carp</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grass carp</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Common carp</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Any other fish species</td>
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</tbody>
</table>
### Appendix 3: Format for reporting Water quality Test Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Date</th>
<th>Test results</th>
<th>Remarks (if any)</th>
</tr>
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</tbody>
</table>

### Appendix 2

<table>
<thead>
<tr>
<th>Fish Species</th>
<th>Number</th>
<th>Max weight</th>
<th>Min weight</th>
<th>Avg weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Labeo rohita</em></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td><em>Labeo bata</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Labeo calbasu</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Labeo gonius</em></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Mrigal</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Catla</td>
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<td></td>
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<td>Grass carp</td>
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<td></td>
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</tr>
<tr>
<td>Common carp</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Any other fish species</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
Environment Management Plan for
Dairy activity in Urban Settlement with more than 15 crossbred animals
in Assam Agriculture Competitiveness Project

(This is essential to be filled by the receiving officer)

<table>
<thead>
<tr>
<th>Sr. No.</th>
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Environment cum Technical Officer

Name, address, telephone number of
District Dairy Development Officer

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</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Date of Receipt of Application


1. FEATURES OF FACILITY
   i. Site Location
   ii. No of Crossbred animals
   iii. Total Area of Dairy farm (m²)
   iv. Total area of waste collection and storage facility

2. SITING OF FACILITY
   Layout & Planning of farm
   What is the distance of the dairy farm from the settlement
   Yes □    No □
   Is the dairy farm located in upwind to the predominant wind direction
   Yes □    No □
   Will the drainage system of effluent directly to the water body or natural channel or storm water drainage channel?
   Yes □    No □
   How many CD structures have been planned on the access road?
   Yes □    No □

Attach layout plan of the area (showing the location of settlement, drainage channel)

Building Layout
   Is the fodder storage area 45 m from the milking shed?
   Yes □    No □
   Is the waste storage area more than 15 m from the milking shed?
   Yes □    No □
   Is the waste storage area 20m from a surface water body?
   Yes □    No □
   Has arrangements for ventilation been provided in the milking shed?
   Yes □    No □
   Has provisions been made to make the floor impervious, non-slip and adequate slope for drainage?
   Yes □    No □
   Has provisions been made for a concrete storage tank
   Yes □    No □
   Has the waste storage area been covered?
   Yes □    No □
3. Waste Collection & Disposal

- What would be the technique adopted for waste collection?
  - □ Dry Collection
  - □ Washing with water
  - □ Composting
  - □ Bio-Gas plant

- What would be the technique adopted for waste disposal?
  - □ Composting
  - □ Bio-Gas plant

- Number of Pits that has been planned: __________

- What would be the size of the waste disposal pit?
  - [ ] m
  - [ ] m
  - [ ] m

Documents to be attached:
- Layout plan of the area (showing the location of settlement, drainage channel) □
- Layout plan of building (showing the location of milking shed, fodder storage, waste storage) □
- Design drawings of the waste disposal pit □
Environment Management Plan for
Al Centre /Veterinary Dispensary Or Hospital Near Community Pond/Drainage
Channel Treating More Than 3000 animals Per Annum
In Assam Agriculture Competitiveness Project

(This is essential to be filled by the receiving officer)

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>No of Receipt</th>
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</table>

Date of Receipt of Application

Accompanying form in triplicate to be submitted by the applicant of which one copy shall be returned to the applicant

Name, address, telephone number of
Environment cum Technical Officer

Name, address, telephone number of
District Veterinary Officer

Explanatory note for filling in Application form for Consent/ Authorization

(1) Any applicant knowingly giving incorrect information or suppressing any information pertaining to any of the items of the application shall be liable for disqualification as beneficiary under Assam Agriculture Competitiveness Project at any time during the Project.

(2) The Application Form shall be submitted at the District office of the Department at the address given on the first page under whose jurisdiction the applicants activity falls.

(3) If any of the items is not relevant to the activity of the applicant, please state 'Not Applicable'.

(4) If the space for reply provided for any item is inadequate, use additional sheets, duly referenced.

(5) The form shall be accompanied by the relevant documents specified on the last page on the Application Form.

(To be returned to the Applicant)

Environment Management Plan document contains all essential documents stated at the end of application

□

(This is essential to be filled by the receiving officer)

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>No of Receipt</th>
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</table>

Date of Receipt of Application

1 FEATURES OF FACILITY

a) Site Location:
b) Type & size of Activity:
c) Total Area of Site (m²):
d) Total Built-up Area (m²):
e) Number of Animals to be treated:

2. SITING OF FACILITY

Layout & Planning of All Veterinary Facility

Is the Veterinary Facility located at a minimum distance of 300m from a water body or natural drainage? □ Yes □ No
What is the distance of waste storage area from the water body or drainage channel? 
Is the area waterlogged? (If Yes, attach the mitigation measures taken) □ Yes □ No
What is the distance of waste disposal location from the water body or drainage channel?
Has adequate number and width of CD structure been provided on approach road? (at least 3-4/km) □ Yes □ No

Attach layout plan of the area (showing the location of Community pond, drainage channel)

Building Layout

Waste Management

1. What is the distance of outfall point of the building drainage system from water body or drainage channel? 

2. What is the estimated quantity of waste to be generated (attach estimates) 

3. What are the types of wastes expected to be generated
   □ Bio-Medical □ Municipal Solid Waste
   □ Liquid Waste

4. What are the Bio-medical waste expected to be generated?
   Animal Waste: Animal tissues, organs, body parts, carcasses, bleeding parts, fluid, blood, experimental animals used in research, waste generated by veterinary hospitals, colleges, discharges from hospitals and animal houses

AH&VS-2
Waste Sharps: Needles, syringes, scalpels, blades, glass that may cause puncture and cuts. This includes both used and unused sharps
Discarded Medicines and Cytotoxic drugs: Wastes comprising of outdated, contaminated and discarded medicines
Solid Wastes: Items contaminated with blood and body fluids including cotton, dressings, soiled plaster casts and lines
Solid Wastes: Wastes generated from disposable items other than the waste sharps such as tubings, catheters, intravenous sets
Liquid Wastes: Wastes generated from laboratory washings, cleaning, housekeeping and disinfecting activities
Incinerator Ash: Ash from incinerator of biomedical waste
Chemical Waste: Chemicals used in production of biologicals and disinfections such as insecticides

5. What is the method of segregation of waste? (Attach details of the waste segregation plan)
6. What is the method of waste disposal proposed? (attach plans for disposal of each of the category of Waste)

Pre Construction

7. Has land been legally transferred to the Department? □ Yes □ No
8. How many number of trees are being cut
9. Has the forest department been informed (Attach copy of the permission received from Forest Department) □ Yes □ No

Project Planning

10. If located at distance less than 300m what is the secondary containment that has been planned? (attach details on layout plan)
11. In case of Water logged area has a storm drainage system been designed? (attach the drainage plan)
Attach a building plan showing Waste Storage area, drainage outfall point

**Documents to be attached**

- Layout plan of the area *(showing the location of Community pond, drainage channel)*
- Mitigation measures for flood prone areas
- Estimates of Bio-Medical Waste Generated
- Waste Segregation plan
- Disposal Plan for each category of Waste
- Copy of Permission form Forest Department
- Building Plan showing Waste Storage area, drainage outfall point
- Drainage Plan
Environment Management Plan for
Rural Roads within 1 km of Sensitive Areas as National
Parks/Sanctuaries/Biodiversity Areas as per SBSAP, Grade I Beels, Ramsar
Wetlands and Notified Forest in Assam Agriculture Competitiveness Project

1. Project Background
   i. Project Corridor: From: ___________________________ To: ___________________________
   ii. Settlement Connected: ___________________________
   iii. Type of Sensitive Areas:
      - National Park
      - Sanctuaries
      - Grade I Beels
      - Ramsar Wetlands
      - Biodiversity Areas
      - Other Notified Forest
      - Other Specify: ___________________________
   iv. Name of Sensitive Area: ___________________________
   v. Endangered Species
      - Flora
      - Fauna
      - Type ___________________________ Number ___________________________
   vi. Total Area in m²: ___________________________
   vii. Area within 1 km of Sensitive areas:

2. Policy & Legal Requirement:

<table>
<thead>
<tr>
<th>Law / Regulation / Guidelines</th>
<th>Relevance</th>
<th>Applicability</th>
<th>Clearance Required</th>
<th>State / Central</th>
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<tbody>
<tr>
<td>The Forest (Conservation) Act, 1980</td>
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<td>The Environmental (Protection) Act, 1986 &amp; The Environmental (Protection) Rules, 1987-96 (various)</td>
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<td>The Wildlife (Protection) Act, 1972</td>
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<td>The Water (Prevention and Control of Pollution) Act, 1974</td>
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<td>The Air (Prevention and Control of Pollution) Act, 1981</td>
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<td>The Motor Vehicular Act, 1988</td>
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<tr>
<td>MoEF Notification, 5th November 2003 (Use of Fly ash, bottom ash or pond ash in the manufacture of brick and other construction activities)</td>
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</table>

3. Inventory of Ecological Features Within 1 Km of Sensitive Area

- Enclosed list of ecological features
- Attach Transect Walk Map

Rural Roads within 1 km of Sensitive Areas - 1
4. Design Consideration

- Enclose Cross Section, L-section of the Road Specifying Design Speed, Road Land Width, Roadway Width, Carriageway, Embankment Height and Plinth Line

5. Slope Stability and Erosion Control

<table>
<thead>
<tr>
<th>Chainage (km)</th>
<th>Embankment Height (m)</th>
<th>Measures (Turfling/ Toe wall/Retaining Wall/ Gabion /Other specify)</th>
<th>Cost (INR)</th>
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</thead>
<tbody>
<tr>
<td>From To</td>
<td></td>
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</table>

6. Drainage (Enclosed Drawing of Each)

- a) Cross-Drainage

<table>
<thead>
<tr>
<th>Type of CD Structure</th>
<th>Chainage (km)</th>
<th>Dimension (m)</th>
<th>Afflux (m)</th>
<th>Protection Measures (Apron, Wing wall, other specify)</th>
<th>Cost (INR)</th>
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<tbody>
<tr>
<td>Hump Pipe</td>
<td>1</td>
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<td>2</td>
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<td>Slab</td>
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<td>Box</td>
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<td>Other Specify</td>
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<td>2</td>
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</table>

- b) Longitudinal Drain

<table>
<thead>
<tr>
<th>Type of Drain</th>
<th>Chainage (km)</th>
<th>Dimension (m)</th>
<th>Lined / Unlined</th>
<th>Out fall (Natural Stream/Pond/Open Area/ Others Specify)</th>
<th>Cost (INR)</th>
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<tbody>
<tr>
<td>Surface</td>
<td>1</td>
<td></td>
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<td>2</td>
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<tr>
<td>Sub-surface</td>
<td>1</td>
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<td>2</td>
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</table>
7. **Water body**
   Is alignment impacting water body □ Yes □ No
   In case of Yes, Enclosed Rehabilitation Plan and drawing of water body including enhancement measures
   Provision of □ Silt Fencing / □ Brush Barrier □ No
   Length (m): ________________

8. **Tree**
   Are tree being cut due to the proposed road □ Yes □ No
   In case of Yes, Fill the table below
   Total Number of tree to be cut: ________________
<table>
<thead>
<tr>
<th>Change (km)</th>
<th>LHS/RHS</th>
<th>Type of Species</th>
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<tbody>
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</table>

   Provision of compensatory □ Yes (Enclose details viz. ownership, land (area & location, number) □ No
   Is Clearance Obtained from □ Yes □ No
   Forest Department

9. **Culture Property**
   Is any culture property being cut due □ Yes □ No to the proposed road
   In case Yes,
   Type of culture property □ Temple □ Mosque □ Dargah □ Shrine □ Scared groves □ Scared pond □ Scared tree
   Total Area (sq. m) ________________ Impacted Area (sq. m) ________________
   Is consultation being done for □ Yes □ No addressing the issue
   Measures taken □ Alternative route □ Relocation (Enclosed relocation details and drawing)

10. **Enhancement Measures**
    Enhancement details (in case yes enclose details and drawing)
    Animal crossing □ Yes □ No
    Ramps for access □ Yes □ No
    Signage □ Yes □ No
### Annexure 1: Intervention wise Categorisation of Impacts

<table>
<thead>
<tr>
<th>SECTOR</th>
<th>Intervention</th>
<th>Scale of Activity</th>
<th>Inside National Parks, Sanctuaries, Ramsar Sites, Grade I II Beels, Classified Forest</th>
<th>Within 1 km of National Parks, Sanctuaries, Ramsar Sites, Grade I II Beels, Classified Forest</th>
<th>Between 1.7 km of National Parks, Sanctuaries, Ramsar Sites, Grade I II Beels, Classified Forest</th>
<th>More than 1.7 km of National Parks, Sanctuaries, Ramsar Sites, Grade I II Beels, Classified Forest</th>
<th>Inside Grade III Beels</th>
<th>Periphery of Grade II Beels</th>
<th>Periphery of Grade I Beels</th>
<th>Inside Community Pond</th>
<th>Outside Community Pond</th>
<th>Near Drainage Channels</th>
<th>Rural Settlement</th>
<th>Urban Settlement</th>
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<td>AGRICULTURE</td>
<td>Horticulture Activity</td>
<td>Cultivation without IPM &amp; INM</td>
<td>E</td>
<td>M</td>
<td>L</td>
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<td>NA</td>
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<tr>
<td></td>
<td>Cultivation with IPM &amp; INM</td>
<td>E</td>
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<td>L</td>
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<td>Treating more than 3000 animal annually</td>
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<td>with more than 1000 birds</td>
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<td>Dairy Farm</td>
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<td>With more than 15 hybrid Animals</td>
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<td>Urban Settlement</td>
<td>Inside National Parks, Sanctuaries, Ramsar Sites, Grade I Beels, Classified Forest, Open Forest</td>
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<td>Phytophagy of Grade II Beels</td>
<td>Inside National Parks, Sanctuaries, Ramsar Sites, Grade I Beels, Classified Forest, Open Forest</td>
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<td>Phytophagy of Grade III Beels</td>
<td>Inside National Parks, Sanctuaries, Ramsar Sites, Grade I Beels, Classified Forest, Open Forest</td>
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<tr>
<td>More than 1 km of National Parks, Sanctuaries, Ramsar Sites, Grade I Beels, Classified Forest, Open Forest</td>
<td>Inside National Parks, Sanctuaries, Ramsar Sites, Grade I Beels, Classified Forest, Open Forest</td>
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<td>Between 1-7 km of National Parks, Sanctuaries, Ramsar Sites, Grade I Beels, Classified Forest, Open Forest</td>
<td>Inside National Parks, Sanctuaries, Ramsar Sites, Grade I Beels, Classified Forest, Open Forest</td>
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<td>Within 1 km of National Parks, Sanctuaries, Ramsar Sites, Grade I Beels, Classified Forest, Open Forest</td>
<td>Inside National Parks, Sanctuaries, Ramsar Sites, Grade I Beels, Classified Forest, Open Forest</td>
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**Notes:**
- Interventions include stock management, stocking, and other activities.
- The scale of activity is determined by the proximity to natural water bodies and specific zones.
- RAL ROADS and FISHERY columns are not applicable in this context.