

Government of Assam
Assam Rural Infrastructure and Agricultural Service Project Society

Assam Agriculture Competitiveness Project
(World Bank Funded)

FINAL REPORT

Specific Environmental
Management Plans

LEA Associates South Asia Pvt. Ltd.

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Environment Management Plan

INTRODUCTION

Environmental Management Plans (EMPs) shall be prepared for AACCP 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 specimen 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.
<ul style="list-style-type: none">• Category L, 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 C 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 1:Sector wise specimen EMPs

Sector	Proposed Intervention	EMP reference No
Agriculture	Horticulture Plantation in Surrounding of National Park, Reserve Forest in radius of 1km	EMP AGRI –1
Fishery	Fish Seed Producers Large-scale Chinese carp hatchery requiring 40kg or	EMP FISHERY –1

Sector	Proposed Intervention	EMP reference No
	above brood fish in single operation or having a capacity to produce 10 million eggs in one batch	
Animal Husbandry & Veterinary Sciences	AI Centre /Veterinary Dispensary Or Hospital Near Community Pond/Drainage Channel Treating More Than 3000animals Per Annum	EMP AH&VS-1
Dairy Development	Dairy activity in Urban Settlement with more than 15 crossbred animals	EMP DAIRY-1
Rural Roads	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	EMP PWD -1

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 officer¹ 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*”², 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.

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

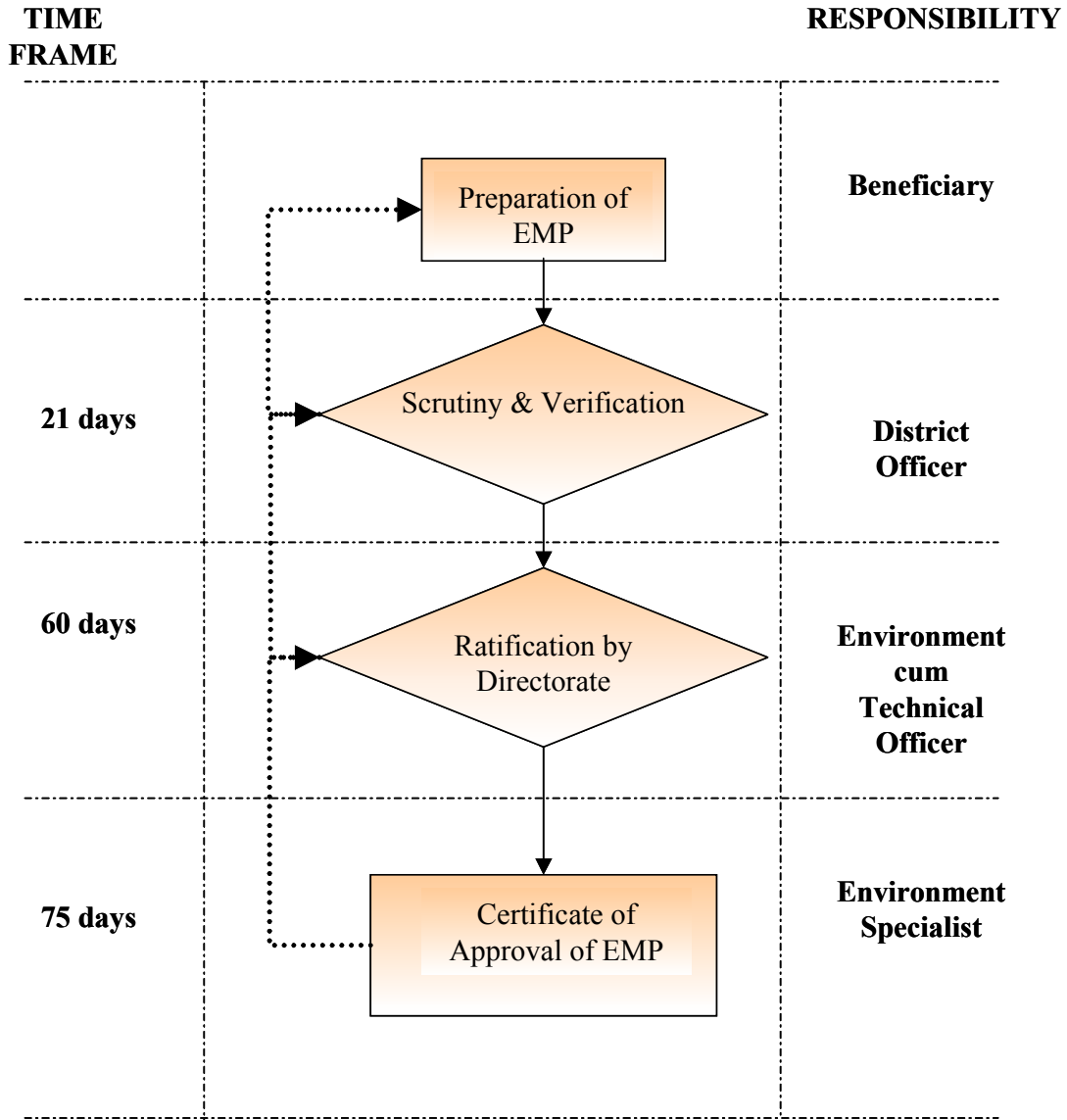
District Level Officers shall monitor the EMP and non-compliance of the EMP shall be intimated to the beneficiary along with a specified time frame for compliance, which shall not be less than 60 days from the date of intimation. Non-compliance of timeframe shall be considered a case deemed fit for disqualification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



Legends

All time frames are calculated form date of receipt of application

-> Communication to Beneficiary
- > Communication to Official

Figure 1: Process of Preparation & Ratification of EMP.

SPECIMEN ENVIRONMENT MANAGEMENT PLAN

Specimen EMPs

Assam Agriculture Competitiveness Project

**Government of Assam, India
July 2004**

Brief Details

- 1 Type of Crops to be Cultivated 3 Location of the Area
 2 Area for Cultivation ha 4 Current Land use of Area

1 Is the land selected for horticulture located Yes No
 in upstream¹ of National Park/ Classified Forest? Attach the location map and drainage plan

A If answer to 1 is Yes then:

2 AREA LEVEL INFORMATION

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

ii Flow and Velocity of the major stream draining the cusec m/s
 Plantation area

iii What is the average rainfall received in a mm Attach the month wise data of rainfall in area for
 year? past 5 years

3 PESTICIDES USAGE INFORMATION

vii What are the types of pesticides, which will Attach details of Constituents in
 be used? Pesticides

viii What is the quantity of pesticides which per hectare
 will be used?

4 FERTILIZERS USAGE INFORMATION

ix Is soil test being carried out to assess the Yes No Attach the copy of soil tests results
 soil nutrient demand?

x Fertilizer requirement per hectare?(In Kg) N P K

5 PROCESSING UNIT DETAILS

xi Is processing unit also located within the Yes No
 plantation area?

B If Yes then:

i What will be the source of water? Surface Water Ground Water

ii What will be the water requirement of kilo litre per day
 processing plant?

iii What will be the amount of Wastewater Kilo litre per day
 generated?

iv Is the processing plant has provision for Yes No If yes attach the Detail Drawings of the
 treatment plant? plant.

v What will be the option for wastewater In Water On Land
 disposal? (Attach consent to Establish & Operate)

v What will be the amount of solid waste kg/day Attach the details of Composition of
 generated? waste

vi How the solid waste disposal will be done? Attach the details of disposal plan

Documents to be attached	
Location map and drainage plan	<input type="checkbox"/>
Copy of soil tests results	<input type="checkbox"/>
Details of Composition of waste	<input type="checkbox"/>
Consent to Establish & Operate	<input type="checkbox"/>

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



**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

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

Sr. No.

No of Receipt

(This number has to be quoted in all correspondence)

Date of Receipt of Application

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

<i>Name, address, telephone number of Environment cum Technical Officer</i>	<i>Name, address, telephone number of District Fishery Development Officer</i>

***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)

Sr. No.

No of Receipt

(This number has to be quoted in all correspondence)

Date of Receipt of Application

		-			-		
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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(sq.m)
- 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):

Year	No of Brood Fish (Kg)	No of Spawns (No)

i) Fish breeding period: From To

Review of Operations

1. Indicate fish species that are induced bred in your hatchery?

<input type="checkbox"/> Rohu	<input type="checkbox"/> Goniou
<input type="checkbox"/> Mrigal	<input type="checkbox"/> Silver Carp
	<input type="checkbox"/> Common carp
<input type="checkbox"/> Catla	<input type="checkbox"/> Grass Carp
<input type="checkbox"/> Clarias gariepinus (Thai magur)	<input type="checkbox"/> Pangasius sutchi
<input type="checkbox"/> Tilapia	<input type="checkbox"/> Big head carp
<input type="checkbox"/> 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 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	<input type="checkbox"/>
Specific Breeding Plan	<input type="checkbox"/>
Details of Precautionary measures in ponds for breeding exotic fishes	<input type="checkbox"/>
Appendix 2: Details of Brood Fish and supplier.	<input type="checkbox"/>
Appendix 3: Water Quality Test Report.	<input type="checkbox"/>

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(sq.m)
- 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
- 5.. Is your farm affected by periodic flood? Yes No
- 6. 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 your rear surplus fish seeds of last season in your fish farm to use as brood stock next season? Yes No

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. i.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	
Specific Breeding Plan	<input type="checkbox"/>
Details of Precautionary measures in ponds for breeding exotic fishes	<input type="checkbox"/>
Appendix 2: Details of Brood Fish and supplier.	<input type="checkbox"/>
Appendix 3: Water Quality Test Report.	<input type="checkbox"/>

APPENDIX 1: Stock Declaration

Fish Species	Number	Max age	Min age	Avg age	Max weight	Min weight	Avg weight
<i>Labeo rohita</i>							
<i>Labeo bata</i>							
<i>Labeo calbasu</i>							
<i>Labeo gonius</i>							
Mrigal							
Catla							
Silver carp							
Grass carp							
Common carp							
Any other fish species							

Appendix 3: Format for reporting Water quality Test Parametres

Parameter	Date	Test results	Remarks (if any)

Appendix 2

Fish Species	Number	Max weight	Min weight	Avg weight
<i>Labeo rohita</i>				
<i>Labeo bata</i>				
<i>Labeo calbasu</i>				
<i>Labeo gonius</i>				
Mrigal				
Catla				
Silver carp				
Grass carp				
Common carp				
Any other fish species				

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
- 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?

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 form 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

Attach layout plan of building (*showing the location of milking shed, fodder storage, waste storage*)

3. Waste Collection & Disposal

What would be the technique adopted for waste collection	<input type="checkbox"/> Dry Collection	<input type="checkbox"/> Washing with water	
What would be the technique adopted for waste disposal	<input type="checkbox"/> Composting	<input type="checkbox"/> Bio-Gas plant	
Number of Pits that has been planned	<input type="text"/>		
What would be the size of the waste disposal pit?	<input type="text"/> m	<input type="text"/> m	<input type="text"/> m

Attach design drawings of the waste disposal pit

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

- 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 AI/ 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, attaché 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 Waste 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

- 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 bio-medical 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 as per SBSAP Other Notified Forest
 Other Specify _____
- iv. Name of Sensitive Area: _____
- v. Endangered Species
 Flora Type _____ Number _____
 Fauna Type _____ Number _____
- vi. Total Area in m² _____
- vii. Area within 1 km of Sensitive areas _____

2. Policy & Legal Requirement:

Law /Regulation / Guidelines	Relevance	Applicability	Clearance Required	State / Central
The Forest (Conservation) Act, 1980				
The Environmental (Protection) Act, 1986 & The Environmental (Protection) Rules, 1987-96 (various)				
The Environmental Impact Assessment Notification, 1994 (amended in 1997)				
The Wildlife (Protection) Act, 1972				
The Water (Prevention and Control of Pollution) Act, 1974				
The Air (Prevention and Control of Pollution) Act, 1981				
The Motor Vehicular Act, 1988				
Hazardous Waste (Management and Handling) Rules, 1989 and Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996				
MoEF Notification, 5 th November 2003 (Use of Fly ash, bottom ash or pond ash in the manufacture of brick and other construction activities)				

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

- Enclosed list of ecological features
- Attach Transect Walk Map

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

Chainage (km)		Embankment Height (m)	Measures (Turffing/ Toe wall/Retaining Wall/ Gabion /Other specify)	Cost (INR)
From	To			

6. Drainage (Enclosed Drawing of Each)

a) Cross-Drainage

Type of CD Structure		Chainage (km)	Dimension (m)	Afflux (m)	Protection Measures (Apron, Wing wall, other specify)	Cost (INR)
Hump Pipe	1					
	2					
Slab	1					
	2					
Box	1					
	2					
Other Specify _____	1					
	2					

b) Longitudinal Drain

Type of Drain		Chainage (km)	Dimension (m)	Lined / Unlined	Out fall (Natural Stream/Pond/Open Area/ Others Specify)
Surface	1				
	2				
Sub-surface	1				
	2				

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 / No
 Brush Barrier 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: _____

Change (km)	LHS/RHS	Type of Species

Provision of compensatory tree plantation Yes (Enclose details viz. ownership, land (area & location, number) No

Is Clearance Obtained from Forest Department Yes No

9. Culture Property

Is any culture property being cut due to the proposed road Yes No

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 addressing the issue Yes No

Measures taken Alternative route Relocation (Enclosed relocation details and drawing)

10. Enhancement Measures

Enhancement details (incase yes enclose details and drawing)

Animal crossing Yes No

Ramps for access Yes No

Signage Yes No

SPECIMEN ENVIRONMENT MANAGEMENT PLAN

ANNEXURE

Assam Agriculture Competitiveness Project

**Government of Assam, India
July 2004**

Annexure 1: Intervention wise Categorisation of Impacts

SECTOR	Intervention	Scale of Activity	Inside National Parks, Sanctuaries, Ramsar Sites, Grade I Beels, Classified Forest, Open Forest	Within 1 km of National Parks, Sanctuaries, Ramsar Sites, Grade I Beels, Classified Forest	Between 1-7 km of National Parks, Sanctuaries, Ramsar Sites, Grade I Beels, Classified Forest	More than 1-7 km of National Parks, Sanctuaries, Ramsar Sites, Grade I Beels, Classified Forest	Inside Grade II & Grade III Beels	Pheriphery of Grade II Beels	Pheriphery of Grade III Beels	Inside Community Pond	Outside Community Pond	Near Drainage Channels	Rural Settlement	Urban Settlement	
AGRICULTURE	Horticulture Activity	Cultivation without IPM & INM	E	E	M	L	NA	L	NA	NA	M	L	L	NA	
		Cultivation with IPM & INM	E	M	L	L	NA	L	NA	NA	L	M	L	NA	
		Horticulture Processing Plant	E	H	H	L	NA	H	H	NA	H	H	H	H	
		Mechanisation	E	L	L	L	NA	L	L	NA	L	L	N/A	N/A	
		Agriculture Service Center	E	H	L	L	NA	L	L	NA	L	L	L	L	
		Medicinal Plants	E	M	L	L	NA	L	L	NA	L	L	L	NA	
	Market & Storage	Rural Markets	E	L	L	L	NA	L	L	NA	L	L	L	L	NA
		Whole Sale Markets	E	M	M	L	NA	M	L	NA	M	M	M	M	
	Irrigation	STW /DTW	E	L	L	L	NA	L	L	NA	L	L	L	L	
		RLP / Water shed	E	L	L	L	NA	H	H	NA	L	M	L	NA	
ANIMAL HUSBANDRY AND DAIRY	Artificial Insemination Activity	Treating less than 3000 animal anually	E	E	L	L	NA	L	L	NA	L	L	L	L	
		Treating more than 3000 animal anually	E	E	M	L	NA	M	M	NA	M	M	M	M	
	Poultry Farm	with less than 1000 birds	E	L	L	L	NA	L	L	NA	L	L	L	L	
		with more than 1000 birds	E	M	M	L	NA	M	M	NA	L	M	M	M	
	Dairy Farm	With less than 15 hybrid Animals	E	E	L	L	NA	L	L	NA	L	L	L	L	
		With more than 15 hybrid Animals	E	E	M	L	NA	M	M	NA	M	M	M	M	

SECTOR	Intervention	Scale of Activity	Inside National Parks, Sanctuaries, Ramsar Sites, Grade I Beels, Classified Forest, Open Forest	Within 1 km of National Parks, Sanctuaries, Ramsar Sites, Grade I Beels, Classified Forest	Between 1-7 km of National Parks, Sanctuaries, Ramsar Sites, Grade I Beels, Classified Forest	More than 1-7 km of National Parks, Sanctuaries, Ramsar Sites, Grade I Beels, Classified Forest	Inside Grade II & Grade III Beels	Pheriphery of Grade II Beels	Pheriphery of Grade III Beels	Inside Community Pond	Outside Community Pond	Near Drainage Channels	Rural Settlement	Urban Settlement
	Vertinary Dispensary/Hospital	With less than 3000 animals only	E	E	L	L	NA	L	L	NA	L	L	L	L
		With more than 3000 animals only	E	E	M	L	NA	M	M	NA	M	M	M	M
FISHERY	Community Tank & Farmers Pond		E	M	L	L	NA	NA	L	L	L	L	L	L
	Beels & Natural Water Body		E	M	L	L	L	L	L	NA	L	NA	L	L
	Fish Seed Production	With less than 40 kg of brood stock in single operation or having a capacity to produce 10 million eggs in one batch	E	L	L	L	NA	L	L	NA	L	L	L	L
		With more than 40 kg of brood stock in single operation or having a capacity to produce 10 million eggs in one batch	E	M	M	L	NA	M	M	M	M	M	M	M
RURAL ROADS	Rural Roads		E	M	L	L	NA	L	NA	NA	L	L	L	NA