

### Environmental Screening Tool

**Guidance:**

- a) The Format needs to be filled for each individual sub-project
- b) If any criteria in category 1,2 or 3, the sub-project will be categorized respectively
- c) Negative list of activities available in ESMF and those sub-projects will not to be undertaken by the project

**Component A1: Irrigation systems modernization**

1. GENERAL			
1.1. Name of Canal		1.1. Name of Tank	
1.2. Chainage (from/to)		1.2. Area of tank (hectares)	
1.3. Length (m)		1.3. Height of tank embankment (m)	
1.4. Average annual rainfall in command area (mm)			
1.5. Soil type in command area			
	<b>Category 1</b>	<b>Category 2</b>	<b>Category 3</b>
1.6. Command area (ha)	More than 10,000 ha	100 – 10,000 ha	Less than 100 ha
1.7. Command area under cultivation (ha / %)			
1.8. Depth of ground water table in command area (m)	<input type="checkbox"/> Deep aquifer (10-20m) <input type="checkbox"/> Very Deep aquifer (below 20m)	<input type="checkbox"/> Shallow (0-5m) <input type="checkbox"/> Moderate (5-10m)	
1.9. Ground water zone classification as per CGWB	<input type="checkbox"/> Over-exploited <input type="checkbox"/> Saline	<input type="checkbox"/> Semi-critical <input type="checkbox"/> Critical	<input type="checkbox"/> Safe
1.10. Command area of canal/tank (list name of villages)	(i) (ii) (iii)		
1.11. Existing Water User Associations (list)	(i) (ii) (iii)		
1.12. Structures damaged during 2015 floods	<input type="checkbox"/> Tank	<input type="checkbox"/> Canal	<input type="checkbox"/> None
1.13. Is the proposed project likely to contaminate water due to use of heavy machinery, human waste discharge, solid waste	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

<p>dumping, use of agro chemicals (Fertilizers, pesticides etc?)</p> <p>1.14. If yes, whether appropriate safeguards are proposed? (write a note)</p>	
<p>1.15. Works to be undertaken</p>	<p><input type="checkbox"/> Rehabilitation of cannal</p> <p><input type="checkbox"/> Revival of tank</p> <p><input type="checkbox"/> Tank bund strengthening</p> <p><input type="checkbox"/> Rehabilitation of regulators</p>
<p>1.16. Is the proposed project likely to affect any natural habitats/ cultural properties/ wetlands?</p> <p>1.17. If yes, whether appropriate safeguards are proposed? (Write note)</p>	<p><input type="checkbox"/> Yes                      <input type="checkbox"/> No</p>
<p><b>2. Rehabilitation of canal:</b></p>	
<p>2.1. Desilting of canal</p> <p>(i) Volume of silt to be dredged (cum)</p> <p>(ii) Volume of dredged silt to be used in embankment strengthening (cum)</p> <p>(iii) Volume of dredged silt to be disposed (cum)</p>	
<p>2.2. Identified burrow pits site(s) along with distance from the work site</p>	
<p>2.3. Identified silt testing laboratory along with distance from the work site</p>	
<p>2.4. Identified silt disposal site(s) along with distance from the work site</p>	
<p><b>3. Tank – Revival and bund strengthening</b></p>	
<p>3.1. Is tank in an eco-sensitive area?</p>	<p><input type="checkbox"/> Yes                      <input type="checkbox"/> No</p>
<p>3.2. Identified disposal site for waste from tanks</p>	
<p>3.3. Earthwork:</p> <p>(i) Volume of silt to be dredged (cum)</p>	

(ii) Volume of dredged silt to be used in embankment strengthening (cum)	
(iii) Volume of dredged silt to be disposed (cum)	
3.4. Identified burrow pits site(s) along with distance from the work site	
3.5. Identified silt testing laboratory along with distance from the work site	
3.6. Identified silt disposal site(s) along with distance from the work site	
<b>4. Rehabilitation of regulators</b>	
4.1. Replacement of regulators proposed?	<input type="checkbox"/> Yes <input type="checkbox"/> No
4.2. Identified site(s) for disposal of waste along with distance from work site	
<b>5. Rain-water harvesting structure</b>	
5.1. RWH proposed?	<input type="checkbox"/> Yes <input type="checkbox"/> No
5.2. Type of RWH proposed	
5.3. Area of proposed RWH (ha)	
5.4. Expected average rainfall to be captured (mm)	
5.5. Is proposed RWH expected to recharge ground water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>6. Equipment/machinery to be deployed</b>	
6.1. Hot mix plant	<input type="checkbox"/> Yes (____nos) <input type="checkbox"/> None
6.2. Concrete mixture with heavy pumps	<input type="checkbox"/> Yes (____nos) <input type="checkbox"/> None
6.3. DG set	<input type="checkbox"/> Yes (____nos) <input type="checkbox"/> None
6.4. Any other machinery/equipment (list with nos.)	

**Component B: Agriculture Productivity Enhancement, Diversification, Improved Livelihoods, Marketing and Value Addition**

<b>1. General</b>	
1.1. Name of village	
1.2. Population	

1.3. Village falls under command area of	<input type="checkbox"/> Tank (name)	<input type="checkbox"/> Canal (name)	
1.4. Area under irrigation (ha)			
<b>2. Agriculture</b>			
2.1. Crops with yield	<input type="checkbox"/> Rice (yield)	<input type="checkbox"/> Maize (yield)	
	<input type="checkbox"/> Pulses (yield)	<input type="checkbox"/> Sugarcane (yield)	
	<input type="checkbox"/> Oilseeds (yield)	<input type="checkbox"/> Millets (yield)	
	<input type="checkbox"/> Spices (yield)	<input type="checkbox"/> Fruits (yield)	
2.2. Cropping pattern	<input type="checkbox"/> Mono-crop	<input type="checkbox"/> Crop-rotation	
2.3. Whether license under Fruits Products Order (FPO), 1955 obtained	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
<b>3. Irrigation systems</b>			
3.1. Source of water (percentage)	<input type="checkbox"/> Ground water <input type="checkbox"/> Canal water <input type="checkbox"/> Tank <input type="checkbox"/> Farm ponds		
3.2. Field channels	<input type="checkbox"/> Existing – non-functional <input type="checkbox"/> Existing - functional <input type="checkbox"/> New required		
3.3. Current irrigation systems in practice	<input type="checkbox"/> Traditional <input type="checkbox"/> Micro-irrigation systems		
3.4. Water User Associations			
(i) Existing	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
(ii) Functional	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
(iii) No. of members			
3.5. Pesticides currently in use (list with quantities)			
3.6. Provision of training for safe use of pesticides exists?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
3.7. If yes, briefly mention the training program			
3.8. Fertilizers currently in use (list with quantities)			
3.9. Cultivated area under organic farming (ha)			
	<b>Category 1</b>	<b>Category 2</b>	<b>Category 3</b>
3.10. Proposed activities under the project	<input type="checkbox"/> Procurement of pesticides <input type="checkbox"/> Other interventions (list)	<input type="checkbox"/> Promotion of new crop and agronomic practices <input type="checkbox"/> Farm ponds	<input type="checkbox"/> Training in safe use of pesticides <input type="checkbox"/> Training on organic farming

		<input type="checkbox"/> Promotion of modern technologies <input type="checkbox"/> Promotion of high value crop using micro-irrigation system <input type="checkbox"/> Rehabilitation of existing/ new field channels <input type="checkbox"/> Other interventions (list)	<input type="checkbox"/> Creation of WUAs <input type="checkbox"/> Other interventions (list)
<b>4. Livestock</b>			
4.1. Population of livestock	<input type="checkbox"/> Cattle - _____ nos. <input type="checkbox"/> Goat - _____ nos. <input type="checkbox"/> Sheep - _____ nos.		
4.2. Source of fodder			
4.3. Existing animal diseases (list)			
4.4. Veterinary facilities existing within 5 km of village	<input type="checkbox"/> Yes <input type="checkbox"/> No		
4.5. Provisions for disposal of animal waste exist?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
4.6. Provisions for disposal of bio-medical waste exist?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
4.7. Provisions for training on livestock research in animal management and disease control exist?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
4.8. If yes, briefly mention the training program			
4.9. Is there existing provision for animal health camps			
	<b>Category 1</b>	<b>Category 2</b>	<b>Category 3</b>
4.10. Proposed activities under the project		<input type="checkbox"/> Strengthening of breeding programs <input type="checkbox"/> Strengthening AI network <input type="checkbox"/> Fodder development and preservation <input type="checkbox"/> Other	<input type="checkbox"/> Training on livestock research in animal management and disease control <input type="checkbox"/> Disease surveillance <input type="checkbox"/> Mastitis control

		interventions (list)	<input type="checkbox"/> Other interventions (list)
<b>5. Fisheries</b>			
5.1. Type of fish/breeding months/fishing months/yield of catch (list)			
5.2. Fishing areas	<input type="checkbox"/> Canal	<input type="checkbox"/> Tank	<input type="checkbox"/> Farm ponds
5.3. Current fishing technologies in practice (list)			
5.4. Provisions of waste disposal exist?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
5.5. Provision for training on fisheries research in fish breeding and technology management exists?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
5.6. If yes, briefly mention the training program			
	<b>Category 1</b>	<b>Category 2</b>	<b>Category 3</b>
5.7. Proposed activities under the project		<input type="checkbox"/> Improving fish productivity <input type="checkbox"/> Promotion of innovative technologies for fishing	<input type="checkbox"/> Research in fish breeding and technology management <input type="checkbox"/> Establishing better market linkages
5.8. Whether registered under Fish Seed Rules 2002	<input type="checkbox"/> Yes	<input type="checkbox"/> No	

Submitted by:

Approved by:

Reviewed by:

\_\_\_\_\_  
AE/JE

\_\_\_\_\_  
Executive Engineer

\_\_\_\_\_  
Environment Specialist, MDPU

**ANNEXURE-X  
SUB-PROJECT SCREENING FORMS FOR ESMF**

**I. Form ES1: Sub-projects screening at identification stage**

Form to be filled by	Submitted to	When
Executive Engineer	CE, WRD	Along with the sub-project proposal

Sr. No.	Question	Yes	No
1.	Will the project interventions adversely impact surrounding natural habitats including conversion of habitat		
2.	Will the project implementation at the site result in physical displacement of any person/family/household in selecting the site for implementing the project		

Signature	:	
Name of person filling form	:	
Designation	:	
For use of WRD	:	
Signature	:	
Name of person verifying form at WRD	:	
Designation	:	

**II. Form ES2: Project pre-planning level stage**

This form needs to be submitted before the launch of the preparation stage of the sub-project.

<b>Form to be filled by</b>	<b>Submitted to</b>	<b>When</b>
Executive Engineer	CE, WRD	Before start of preparation stage

<b>S. No.</b>	<b>Question</b>	<b>Yes</b>	<b>No</b>	<b>NA*</b>
1.	Is any of the project activity affecting the ecologically sensitive site, i.e., national park, wildlife sanctuary?			
2.	Will the project affect any wetland?			
3.	Is the project located along designated wildlife migratory route?			
4.	Have the beneficiaries been identified?			
5.	Is the WUA willing to take up activities under the project?			
6.	Does the project proposal have Gender Action Plan and Vulnerable Group Development Plan prepared?			
7.	Are the documents, books and accounts by WUA being maintained?			

Signature	:	
Name of person filling form	:	
Designation	:	
	:	
For use of WRD	:	
Signature	:	
Name of person screening form at WRD	:	
Designation	:	



**III. Form ES3: Planning stages screening**

This form needs to be submitted after the project preparation stage and before the launch of the implementation/construction stage of the sub-project.

<b>Form to be filled by</b>	<b>Submitted to</b>	<b>When</b>
Executive Engineer	CE, WRD	Before start of implementation stage

<b>S. No.</b>	<b>Question</b>	<b>Yes</b>	<b>No</b>	<b>NA*</b>
1.	If pest and soil nutrient management plan involved, whether appropriate amount budgeted for implementation?			
2.	Whether stakeholder consultations were organized for finalizing the plan?			
3.	Whether tank bed sediment samples collected for testing?			
4.	Civil works by contractor implemented			
5.	OFD works in each WUA including link drain construction reviewed			
6.	Has the quality been assured through agreed mechanism and reporting			
7.	Trainings (WUA management / livelihood / financial management / O&M / M&E / water management, etc.) carried out			

Signature	:	
Name of person filling form	:	
Designation	:	
	:	
For use of WRD	:	
Signature	:	
Name of person screening form at WRD	:	
Designation	:	

**IV. Form ES4: Operation stage environmental and social monitoring**

This form needs to be submitted on a quarterly basis during operation stage of the sub-project.

Form to be filled by	Submitted to	When
Project Implementing Unit at field level	Line Department HoDs	Frequency – Quarterly during operation stage

S. No.	Question	Yes	No	NA
1.	Does the project involve land acquisition?			
2.	Is the IPM plan operational in the community?			
3.	Is there active involvement of vulnerable groups in post implementation?			
4.	Are contractors paid only after certifying that construction related environment and social?			

S. No.	Question	Target as per plan	Actual achieved
1.	Does the project involve any land acquisition?		
2.	Number of IPM related training/awareness campaigns held in the community		
3.	Proportion among the service user farmers		
	-Farmers from vulnerable communities		
	-Women farmers		
4.	Representation in WUA		
	-Farmers from vulnerable communities		
	-Women farmers		

Signature	:	
Name of person filling form	:	
Designation	:	
For use of WRD/Line Department	:	
Signature	:	
Name of person screening form at WRD/Line Department	:	
Designation	:	



This is to certify that on the basis of above Social Screening that this irrigation tank is categorized as Category \_\_\_\_\_ in accordance with the ESMF.

Signature	:	
Nameofpersonfillingform	:	
Designation	:	
ForuseofWRD	:	
Signature	:	
NameofpersonverifyingformatWRD	:	
Designation	:	