

**Efficient Land Use Based Integrated Farming system for Rural Livelihood Security in  
Aurangabad, Dhule and Gondia Districts of Maharashtra**  
National Bureau of Soil Survey and Land Use Planning (ICAR), Nagpur – 440 010

**Environmental and Social Safeguards Management In NAIP**

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No. of States/UT covered: One (Maharashtra)

No. of Districts covered : 3 (Aurangabad, Dhule and Gondia)

Duration: 3.25 Years

Budget: Rs.584.4666 lakhs

**Project Objectives**

- To identify constraints and potentials influencing the productivity and profitability of the existing livelihood systems.
- To improve the livelihood systems through efficient management of soil and water resources for increasing productivity, profitability and diversity of the farming systems.
- To facilitate enhanced off farm income and employment generation (for landless people) through complementary/supplementary enterprises, devise appropriate mechanisms through institutional linkages and capacity building and improve the quality of life through drudgery reduction.
- To formulate a frame work for up-scaling improved livelihood matrix in similar domains.

**• Brief Project Description**

B. Environmental Category: B

2. Major issues in the subproject

• **Social:** Major social issues likely to arise on implementation of the projects are –

- 1) Inclusion of poor and disadvantaged groups
- 2) The capacity of farmers to adapt and sustain the productivity gains
- 3) Demonstration of economic benefits of the interventions

**Environmental:** Major environmental issues likely to arise on implementation of the projects are –

1. Protection of local biodiversity resources
2. Impact of use of agro chemicals on environment

3. Safeguard Policies Triggered (World Bank Policies)

<b>Safeguard Policies Triggered (World Bank Policies)</b>		
	<b>Yes</b>	<b>No</b>
Environmental Assessment (OP/BP 4.01)	[X]	[ ]
Natural Habitats (OP/BP 4.04)	[ ]	[X]
Pest Management (OP 4.09)	[X]	[ ]
Cultural Property (draft OP 4.11-OPN 11.03 -)	[ ]	[X]
Involuntary Resettlement (OP/BP 4.12)	[ ]	[X]
Indigenous Peoples (OP 4.10)	[X]	[ ]
Forests (OP/BP 4.36)	[ ]	[X]
Safety of Dams (OP/BP 4.37)	[ ]	[X]
Projects in Disputed Areas (OP/BP 7.60)	[ ]	[X]
Projects on International Waterways (OP/BP 7.50)	[ ]	[X]

( Measures to address these issues is given in 8(a)

**4. Risk related Issues (not covered under 3 above but perceived to be important in the sub-project):**

In addition to the issues covered in the table above, the issue of interface with the communities is also important to the subproject. Measures to address this issue is given in 8(b)

**5. Impact Assessment** (Pl. see Table A1 and A2)

**6. Potential indirect and/or long-term impacts** due to anticipated future activities in the project areas (assessment of anticipated conflict /complimentarily with the current as well as those proposed for the next five years) in the areas of activities of the subproject)

No long term negative impacts are foreseen

**7. Identify the key stakeholders** and describe mechanisms for consultation with and to them done/disclosure so far done including per-project consultations with the stake holders, stakeholders' workshop before formulating the full proposal, discussing the full proposal with some stakeholders before submission to the PIU.

The project was formulated after consulting not only stakeholders but also environment groups like "Nisarga". Stakeholders were consulted and the activities have been planned after due diligence in participatory mode. The key stakeholders are existing JFMC and SHGs to be formulated. Training to the identified groups is planned for environmental awareness and regular consultations with experts.

## 8 Measures to address issues

(a) The subproject designed includes following measures

- i. **Environment-** The screening of environmental issues has been done to include possible impacts and appropriate mitigation measures are proposed (enclosure I)
- ii. **Pest management** – Encouraging the use of Integrated pest management practices will discourage the use of chemical pesticides.

### iii. **Indigenous people**

The proposed interventions are either through augmenting or making adjustments in the livelihood system of the indigenous people without causing any major changes in their way of life. It will only improve their income, nutrition and livelihood security. However, planned efforts would be made to ensure that tribals are included and derive full benefit from the projects intervention.

### 8(b)

- i. **Interface with the communities:** The selection of beneficiaries will be made through involvement of local institutions and communities; preference will be given to a willing partner. Subproject implementation plan would be prepared and agreed with the communities and displayed. Participatory approach and transparency in the implementation would be maintained. Gender issues would be adequately addressed

9. Consultation/disclosure to be done in future: Local disclosure through mechanisms such as launch workshop, interfaces during the implementation stage of the sub-project for sharing the results and soliciting feedback circulating project brochures and implementation progress from time to time, putting up annual reports on the web site and annual stakeholder workshops wherever feasible.

**Table A1: Environmental Safeguard: Activities, Issues, Impact and Mitigation Measures**

Activities	Issues	Anticipated level of Impacts		Mitigation Measures
		Positive	Negative	
Preparation of soil fertility map, Quantification of available NTFP and identification of potential source. Map and report with details on resources status	Optimum utilization of resources for sustainable and eco-friendly development	3		
Renovation of community water harvesting structures and efficient recharge techniques, interventions on efficient use of water for higher productivity and income	Conservation of natural resources	3		
	Misuse of chemicals due to increased water availability		1	Provision is made for training the stakeholders in balanced use of fertilizer. Being resource poor, current use of fertilizers is extremely limited. Moreover, bio-fertilizers/vermicomposting are expected to minimize use of chemical fertilizers and utilization of locally available biomass.
Nutrition and health management of livestock, introduction of productive breeds,	Stall feeding introduced through the project with nutrition care through fodder development/silvipasture will protect forest lands and will assist rejuvenation as uncontrolled grazing will be curbed	2		
Seed production activities to meet the seed requirements of the cluster and promoting the concept of seed bank	Local seed production will indirectly help environment protection because dubious seeds have reportedly led to crop failure especially in Aurangabad cluster, where it resulted in tree felling/selling for survival and hence damage to ecosystem	3		
Pisciculture in community ponds	Mismanagement of natural resources		1	Proper training and management through JFMC/Co-op society
Backyard activities including poultry, goat-keeping,	Confining goats to backyard will help in protection Prevention of overgrazing of	2		

growing vegetables, plants etc.	forest. and nutritional security			
Linkages to ensure timely and quality supply of inputs and marketing of fishing rights/milk/animals etc.	carrying capacity of soils		2	Sustained training, higher awareness and limited land holdings will serve as checks.

**Table A2: Social Safeguard: Activities, Issues, Impact and Mitigation Measures**

Activities	Issues	Anticipated level of Impacts		Mitigation Measures
		Positive	Negative	
Enhancement of livelihood security and employment generation for the poor farming communities of the coastal region	Enhanced income due to introduction of HYV, crop diversification, fish farming both in fresh water and brackish water, paddy cum fish culture, improved health care and feed of livestock mushroom cultivation and bee keeping	4		
	Drudgery of women will be reduced through introduction of small farm implements.	2		
Renovation of community water harvesting structures and efficient recharge techniques, interventions on efficient use of water for higher productivity and income	Conflicts in sharing water, sharing maintenance expenditure		1	LCG, WUA and implementation of project in participatory mode will ensure smooth resolving of the issues. The formal groups are expected to sustain the conflict-free sharing even after termination of the project
Seed production activities to meet the seed requirements of the cluster and promoting the concept of seed bank	Less dependence on external inputs	2		Availability of quality seeds and economic benefits will encourage bondage within the community and sustain the formal and informal groups in addition to providing livelihood to few people
Backyard activities including poultry, goat-keeping, growing vegetables, plants etc.	Nutrition	2		Enhanced social status, increased income and employment
Training the	Management of resources	2		

stakeholders in value addition to the NTFP through processing and establishing facilities for the same	and relations with forest authorities Conflict free existence with forest authorities and enhanced income will ensure social harmony			
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**Signature of CPI**

**Signature of  
National Coordinator**

**Signature of  
National Director**