An Integrated Approach for Master Plan Development Project to Increase Aquaculture Production Through Conservation and Development of the Aquatic Eco-Systems Associated with Lagoons and Inland Waters of Sri Lanka

As Presented by
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SDG Related to Fisheries Sector

- **Goal 1.** End poverty in all its forms everywhere
- **Goal 2.** End hunger, achieve food security and improved nutrition and promote sustainable agriculture
- **Goal 14.** Conserve and sustainably use the oceans, seas and marine resources for sustainable development
Policy Objectives of the Ministry

- Generate employment opportunities and improve quality of life of the fishing community
- Enhance per capita fish intake and ensure food security
- Minimize post-harvest losses, improve quality and hygienic condition of fish
- Increase foreign exchange earnings through exports and increase contribution to GDP growth
- Conservation and management of aquatic resources ensuring responsible fisheries
Project Objectives

• It has been identified lagoon as an underutilized natural resource which could be increased productivity by using efficiently.

• By implementing this project Ministry is expecting to achieve following main objectives.
  ➢ Conserving and utilizing lagoon ecosystem in sustainable manner
  ➢ Increasing the fish production
  ➢ Develop multiple economic functions in and around lagoons
Project Activities

- Dredging and cleaning
- Develop fishery infrastructure facilities
- Increase the income through growth of fish production
- Create new job opportunities
- Develop fishery related industries
- Attract large and middle scale investors (local/foreign) through promoting lagoon aquaculture
- Introduce and implement fishery post-harvest and value added livelihood development projects
- Increase living strands of lagoon fishers by developing common infrastructure in and around
- Improve housing and sanitary facilities of lagoon fishers
Project Activities cont...

➢ Create alternative livelihoods for lagoon fishers
➢ Conserve lagoons through providing physical and livelihood resettlements for illegal encroaches and control further encroachments
➢ Develop urban and public entertainments/recreational facilities
➢ Develop tourism and related industries
➢ Utilize 300 under-utilized reservoirs in wet zone for culture based fisheries and create 300 fishery related 3,000 job opportunities and contribute LKRM 500 for rural
➢ Promote local fish consumption
➢ Increase fish export and earn foreign exchange
Project Deliverables

• Public infrastructure development
• Fisheries infrastructure development
• Clean the Lagoons (Dredging/cleaning if required)
• Aquaculture development
• Annual stocking - species to be stocked has to be identifies
• Integrated development - tourism and related activities
• Integrated development - urban development related activities
• Implementing effective Public Private Partnership (PPP) projects for selected lagoons which will include recommendation for maximum utilization of under-utilized resources
Overall objective is to prepare master plan for following lagoons under 4 clusters for sustainable utilization & development of the resources under green economy concept

<table>
<thead>
<tr>
<th>Cluster</th>
<th>Lagoons</th>
<th>Consultancy firm</th>
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<tbody>
<tr>
<td>Cluster A</td>
<td>Chilaw, Mundal &amp; Puttalam</td>
<td>TEAMS (Pvt) Ltd</td>
</tr>
<tr>
<td>Cluster B</td>
<td>Jaffna, Uppu Aru &amp; Thondamanaru</td>
<td>Master Hellie’s Engineering Consultants (Pvt) Ltd</td>
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<tr>
<td>Cluster C</td>
<td>Rekawa &amp; Koggala</td>
<td>TEAMS (Pvt) Ltd</td>
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<tr>
<td>Cluster D</td>
<td>Panama &amp; Arugambay</td>
<td>Multi Tech Solutions (Pvt) Ltd.</td>
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Major Deliverables of Master Plan Development

Report on stakeholder discussions and Community consultation (PRA/RRA)
Rapid Assessment Survey
SWOT analysis
Preparation of a draft Master plan and a plan of action
Provide draft master plan and client approval
Preparation of technical specifications
Major Deliverables of Master Plan Development cont..

• Design review and approval (By Community as well)

• Master Plan with plane of actions on starting up concurrent activities as identified, and evidence of start-up

• Recommendation on project sustainability including community participation, community-based management, institutional arrangement etc.

• Recommendation for next stage of development including further actions to be undertaken (identification of future projects, programmer ideas and detailed TOR for pre-feasibility and feasibility studies)
Stakeholders

- Department of Agrarian
- Ministry of City Planning and Water Supply
- Hindu Religious Affairs and Northern Province Development
- Archaeological Department
- Department of Forest
- Department of Wildlife Conservation
- Sri Lanka Navy
- Urban Development Authority
- Civil Aviation Authority
- National Water Supply & Drainage Board
- Sri Lanka Tourism Development Authority

Ministry of Fisheries & Aquatic Resources Development and Rural Economy

DFAR
- District Fisheries Offices

NAQDA
- District Aquaculture Extension Offices

NARA

Consultancy Firm
- Master Hellie’s Engineering Consultants (Pvt) Ltd
- Multi Tech Solutions

Project to Increase Aquaculture Production Through Conservation and Development of the Aquatic Eco-Systems Associated with Lagoons and Inland Waters of Sri Lanka

Community
Duties & Responsibilities of Stakeholders

• Coordination at lagoon levels in related with all project activities
• Social mobilization activities and orientation them on facilitator role in village level to be played
• Provide guidance in planning and conducting social mobilization activities related and actively participate in such activities
• Providing early warning of the problematic interventions and processes that need corrective action
• Ensure that applicable guidelines and criteria on environment are complied with the requirements during construction
Matter to be fulfilled by Consultants

- Consultant will provide community participatory sustainable conservation proposals with activity plan
- Dredging, Cleaning and conservation of lagoons
- Consultant shall give zoning plan for each lagoons
- Community Empowerment; Project planning approach shall be community based approach and core-management aspects are ensured by consultants
- Increase fish production
  - Carrying capacity of the lagoon should be evaluated
  - Necessary recommendations have to be made for culture based fisheries
- Data collections
Thank you