



Session - 2

4TH Thematic Workshop on Water Allocation and Water Rights

23-26 January 2007, Saitama, Japan.

By

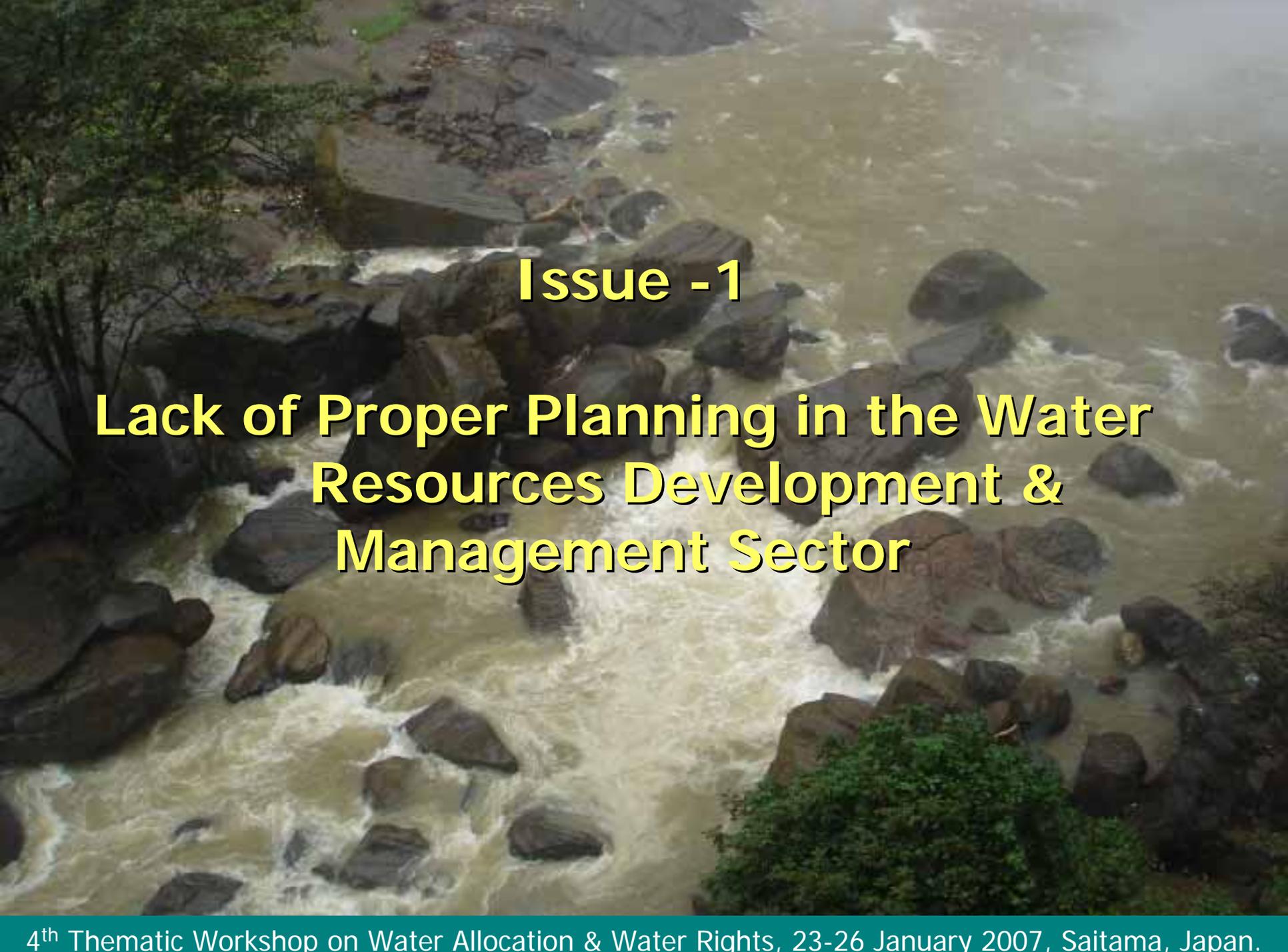
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Key Water Related Issues Identified in Sri Lanka

1. Lack of Proper Planning in the Water Resources Development & Management Sector
2. Improper Water Management Due to Technical or Other Reasons





Issue -1

Lack of Proper Planning in the Water Resources Development & Management Sector

Bad impacts and Real Trouble derived from the Issue-1

- During the Dry Season Irrigation Area has to be restricted due to Water Scarcity
- Priority Sectors are not getting Right Quantity of Water.
- Can observe conflicts among Sectors. (Hydro Power-Irrigation-Domestic Water-Environment)
- Frequent Power-cuts , Water –cuts are common.
- Affect to the fauna & Flora .

Causes of the Issue-1

- No single Ministry is Responsible for Water Sector Development & Management.
- Lack of Interaction among different Sectors during the Planning.
- Lack of Policy Guidelines to be followed.
- No proper Short, Medium & Long Term Plans for Sectors too.
- Reluctant for Integration due to narrow issues.
- Lack of understanding of Value of Water

Proposals : Issue-1

1. **Develop a Water Resource Master Plan for Sri Lanka for next 25 years by integrating all the Sectoral Master Plans.**
2. **Strengthening the existing Apex body (Water Management Secretariat) by enhancing more active participation from different sectors (Power, Irrigation & Water Supply) to make the decision making process more effective.**
3. **Introduce other form of Electricity Generation Options so that Power Sector is not fully or continuously depend on Hydropower.**

Issue - 1 : Proposal - 1

Develop Water Resource Master Plan for Sri Lanka for next 25 years, by Integrating all the Sectoral Master Plans.

Realization

- A Technical Working Group (TWG) will be formed with the representation of all Water Handling Agencies at present, to involve with the Planning Process from the inception.

Expected Impact/Outcome:

- All the water users are having effective mechanism to address their issues.
- Minimization of water related conflicts. (All sectors are happy)

Issue - 1: Proposal - 1 /Cont

Finance/Feasibility:

- Organization is having the necessary capacity to handle this work with the coordination of other water related agencies with external Financial Assistance which are already committed.

Sustainability:

- Since all water related agencies jointly handle this Key Task and Organizations are having the Technical Capability/Capacity to manage the process, Sustainability is ensured.

Issue - 1: Proposal - 1 /Cont

Implementation Agenda

	Items in procedures/ processes	2006/ 2007	2008	2009	2010/ 2011
Implementation Agenda	Form TWG which represent key officers of All Water Handling Agencies	XX			
	Planning/Preparation Work	XX			
	Commencing Work with situation analysis		XX		
	Implementation with the Guidance of Client/TWG			XX	XX

Issue 1 : Proposal - 2

Strengthening the existing Apex body (WMS) by introducing enhancing more active participation from different sectors (Power, Irrigation & Water Supply and Local Authorities) to make the decision making process more effective.

Realization

- Review the existing situation & fill the gaps and ensure more dynamic participation.

Expected Impact/Outcome:

- More active participation of all sectors with high responsibility/commitment for decision making process.
- Optimization of all Sectoral needs

Issue - 1 : Proposal - 2 /Cont..

Finance/Feasibility:

- No significant finance is involved since existing organization can manage the process with MASL budget. Hence feasibility can be ensured.

Sustainability:

- Organization is currently operationalizing this mechanism and have the required capacity to improve it further. Also this can be managed through own funds and hence sustainability is ensured.

Issue - 1: Proposal - 2 /Cont

Implementation Agenda

	Items in procedures/ processes	2006/ 2007	2008	2009	2010/ 2011
Implementation Agenda	Review the existing situation	XX			
	Strengthening Water Panel by filling the Gaps.	XX			
	Monitoring	XX	XX	XX	XX

Issue - 1 : Proposal - 3

Introduce other form of Electricity Generation Options so that Power Sector is not fully/continuously depend on Hydropower.

Realization

- To encourage to go for other form of electricity generation options such as coal power to cover the base load of Electricity Supply , so that Hydro Power could be match with fluctuating demand. Then Storages of Multipurpose Reservoirs could be optimize and water allocation could be done more productively to all sectors.

Expected Impact/Outcome:

- Water Allocation to all stakeholders can be optimized. All stakeholders would be happy

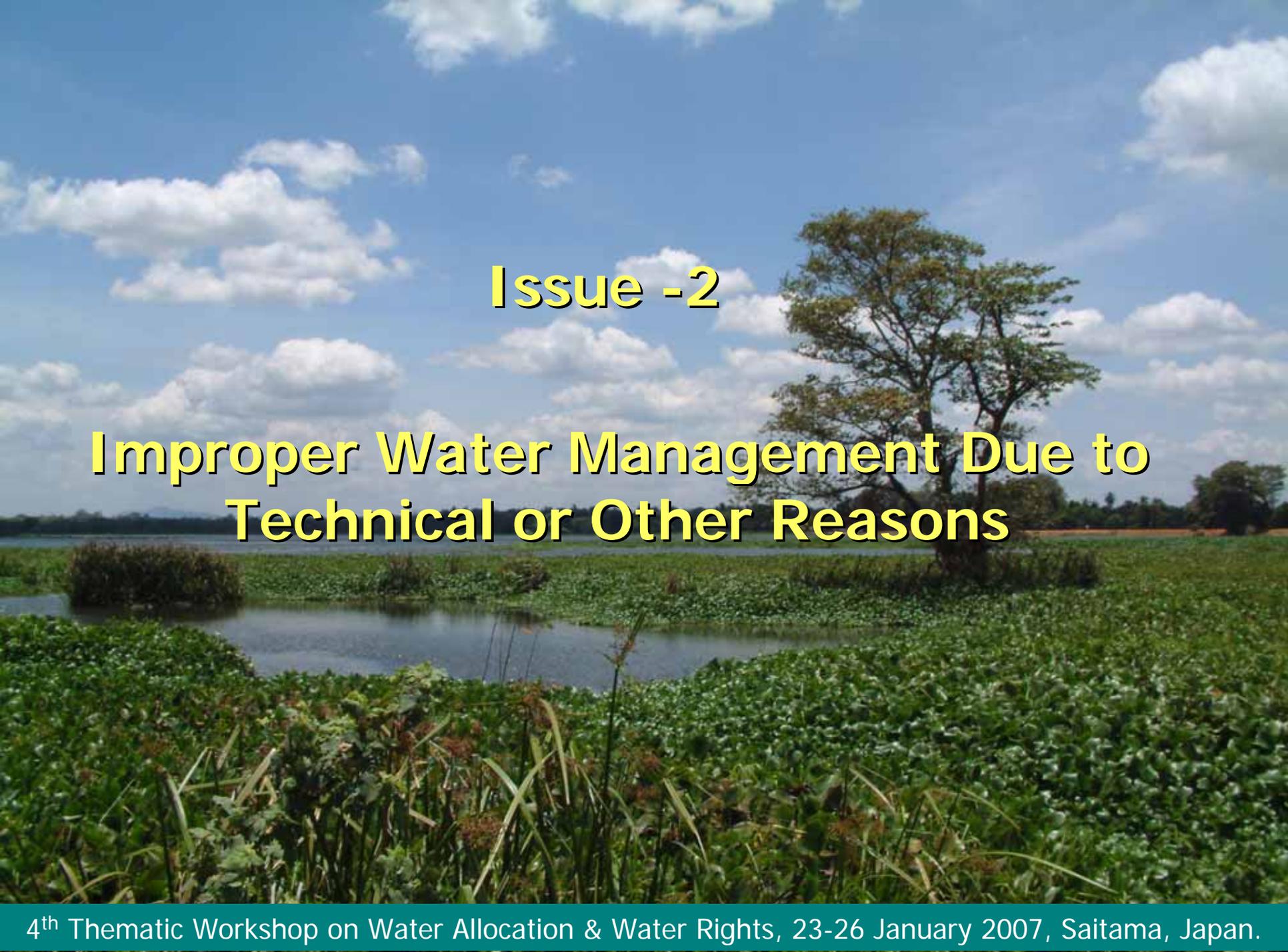
Issue - 1 : Proposal - 3 /Cont...

Finance/Feasibility:

- Although this proposal is seems to be more related to the country's Energy Generation Policy, today country is trying to use maximum Hydro Power Potential from Storage Reservoirs which badly affects to the current Water Allocation Policy.
- Now demand for Electricity of the country is 8% and already GOSL has initiated two 900MW coal power plants in North West and North Eastern Part of the country with Donor Funds.
- Funds are already committed. During next 5-10 years these two Power plants will be completed in three stages.

Sustainability:

- With the completion of above two massive coal power plants in the country , power sector will **not** depend on Hydro Power as at present and Water Allocation among the sectors and other stakeholders could be done more effectively. Hence sustainability is ensured.



Issue -2

Improper Water Management Due to Technical or Other Reasons

Bad Impacts of the Issue-2

- Low Productivity.
- Wastage of Irrigation Water.
- Problems between Community & Water User Associations/Farmer Organizations.
- Livelihood of the Water Users and their Economy is badly affected.

Causes of the issue-2

- No sufficient Measuring Gauges available.
- Poor O&M of Canals and Related Structures
- Overuse of Irrigation Water.
- Technology Gap of O&M Staff and Farmers.
- Reluctance of Farmer Community to move from Traditional ways to new practices which save more water.
- No Incentive



Proposals: Issue-2

1. Provide adequate measuring devices for at-least Main,Branch/D-canal system and strengthening Institutional setup to run the system more efficiently.
2. Introduce Bulk Water Allocation Mechanism and motivate farmers to save more water from the allocation and introduce some Incentive Scheme for such farmers.
3. To Practice/Implement already developed O&M Policies for the different level of Irrigation systems .(IMT and PIM) and to convince Government the importance of allocating adequate O&M Funds to improve the operational efficiency and the sustainability of these National Assets.

Issue - 2 : Proposal -1

Provide adequate measuring devices for at least Main, Branch/D-canal system and strengthening Institutional setup to work the system more efficiently.

Realization

- Install measuring devices & provide on the job training Staff and Farmers.

Expected Impact/Outcome:

- Flexible Water Management System having control mechanism.
- Less Water Management issues among beneficiaries.
- Water saving

Issue - 2 : Proposal -1 /Cont...

Finance/Feasibility:

- Can manage with MASL O&M budget with own organizational technical staff and expertise. Hence Feasibility is ensured.

Sustainability:

- Once upgraded system with improved measuring devices could be used for next 20-25 years and hence the sustainability can be ensured.

Issue - 2: Proposal - 1 /Cont

Implementation Agenda

Implementation Agenda	Items in procedures/ processes	2007	2008	2009	2010
	Review the Existing Situation	XX			
	Design the System	XX			
	Farmer/Staff Awareness	XX	XX		
	Implementation		XX	XX	XX
	Monitoring	XX	XX	XX	XX

Issue - 2 : Proposal -2

**Introduce Bulk Water Allocation and motivate farmers to save more water from the allocation .
Introduce some incentive scheme for such farmers.**

Realization

- Bulk water allocation concept will be introduced with thorough awareness to farmers and Introduce workable incentive or promotion program to encourage farmers.
- Bulk Water Allocation Concept: Is, each Distributory Canal Farmer Organization (DCFO) is given an estimated quantity of irrigation water for a particular season and asked them to share and manage the whole process. Then they will preciously manage the given quantity and save some amount . They are the key decision makers in the whole process. This is different from traditional agency controlled water distribution among farmers.

Issue - 2 : Proposal -2 /Cont...

Expected Impact/Outcome:

- Farmers use right quantity of water. No waste of water.
- Optimum utilization of available water
- More productivity.
- Economic situation will be improved.

Finance/Feasibility:

- Once Farmers get thorough Awareness, it ensure the Feasibility. Similarly no much of finance is involved. Organization is having the capacity to manage this task successfully. Hence Feasibility is further ensured.

Sustainability:

- Once majority of the are farmers aware, this system is having lot of advantages for their prevailing system ,feasibility is ensured.

Issue - 2: Proposal - 2 /Cont

Implementation Agenda

	Items in procedures/ processes	2007	2008	2009	2010
Implementation Agenda	Farmer Awareness	XX	XX	XX	
	Planning	XX	XX		
	Execution		XX	XX	XX
	Monitoring	XX	XX	XX	XX

Issue - 2 : Proposal -3

- Practice/Implement already developed O&M Policies for the different level of Irrigation systems .(IMT and PIM)
- Convince Government the importance of allocating adequate O&M funds since the sustainability of these National Assets which have been developed with the huge Capital Investments, is Government Responsibility.

Realization

- Aware farmers and convince Finance Ministry officials the importance of this need for long life of expensive systems developed with huge capital investments.

Expected Impact/Outcome:

- Properly managed irrigation system.
- Long life for the assets of irrigation systems and more revenue for the people and hence poverty will be reduced in the country.

Issue - 2 : Proposal -3 /Cont...

Finance/Feasibility:

- Currently Main System is managed by the Government (MASL &ID) and Tertiary System is managed by Farmers themselves with their funds. With increased O&M Funds from the Finance Ministry this would be feasible.
- Commitment of farmers and the Government on O&M of different levels will ensure the feasibility..

Sustainability:

- Sustainability is ensured because farmers are directly involved with the process.

Issue - 2: Proposal - 3 /Cont

Implementation Agenda

	Items in procedures/ processes	2007	2008	2009	2010
Implementation Agenda	Review the Current Situation	XX			
	Make awareness campaign for O&M staff and Farmers on already O & M Policies for National Level & the Tertiary Level	XX			
	Implementation		XX	XX	
	Monitoring	XX	XX	XX	XX

**Thank You
for your Attention**



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