

OFT-6

1.	Title of On farm Trial	Study on effect of ‘Garlic Paste’ to Control Mixo- sporediosis in Catla
2.	Problem diagnosed	High % of mortality in Catla Fingerlings
3.	Details of technologies selected for assessment/refinement	<p>Farmers Practice = They put few tamarind twigs or Banana stem in pond.</p> <p>Technology Option I = Killing of infected fish +liming in pond +Dip treatment in 1:3000 KMnO4 Solution + Supplementary feeding @ 3% of total stock</p> <p>Technology Option II = Alternative dip treatment of infected fish in 1:3000 KMnO4 Solution & 3% saline solution + Supplementary feeding @ 3% of total stock</p> <p>Technology Option III = Liming in pond + Supplementary feeding @ 3% of total stock + Dip treatment of infected fish in 3 % garlic paste solution</p>
4.	Source of Technology	CIFRI
5.	Production system and thematic area	Rearing pond management./ Disease management
6.	Performance of the Technology with performance indicators	Result shows better survival of fingerlings by Alternative dip treatment of infected fish in 1:3000 KMnO4 Solution & 3% saline solution + Supplementary feeding @ 3% of total stock
7.	Final recommendation for micro level situation	Alternative dip treatment of infected fish in 1:3000 KMnO4 Solution & 3% saline solution+Supplementary feeding @ 3% of total stock to control Mixo- sporediosis in Catla fingerlings
8.	Constraints identified and feedback for research	<p>Man power requirement is high</p> <p>Feed Back - Refinement of the technology to be done</p>
9.	Process of farmers participation and their reaction	Collaborative. Farmers are happy with the performance

Thematic area: Disease management

Problem definition: High % of mortality in Catla Fingerlings in rearing pond

Technology assessed: Study on effect of ‘Garlic Paste’ to Control Mixo- sporediosis in Catla

Table: 2 Study on effect of 'Garlic Paste' to Control Mixo- sporediosis in Catla

Technology option	No. of trials	Data related to problem address		Disease/ insect pest incidence (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		%of Fish Mortality(Catla)	Recovery (%)						
Farmers Practice = They put few tamarind twigs or Banana stem in pond	6	47	53	-----	1.9	11270/-	22800/-	11530/-	2.02 :1
Technology Option-I = Killing of infected fish +liming in pond +Dip treatment in 1:3000 KMnO4 Solution + Supplementary feeding @ 3% of total stock	6	22	78	-----	2,4	14500/-	28800/-	14300/-	1.99 :1
Technology Option II = Alternative dip treatment of infected fish in 1:3000 KMnO4 Solution & 3% saline solution + Supplementary feeding @ 3% of total stock	6	19	81	-----	3.4	14000/-	40800/-	26800/-	2.91 :1
Technology Option-III = Liming in pond + Supplementary feeding @ 3% of total stock + Dip treatment of infected fish in 3 % garlic paste solution	6	32	68	-----	2.1	14250	25200	10950/-	1.77 : 1
SEM±		2.369	2,369		0.144				
CD at 5%		5.05	5.05		0.31				

Results: Technology option II shows better performance in respect to survival of Fingerlings,(81%) , increase & yield(3.4 qt/ha)