

## Sustainable Fishery resource management & development in Haldia, West Bengal

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### ABSTRACT

The present case study is based on the field survey in different villages of Haldia Block of Purba Medinipur District of West Bengal. The survey investigation indicated that integrated fishery management practices related to proper resource utilization, species diversification with endangered indigenous & new fish species introduction i.e. Amur Common Carp, Pengba, Milkfish, Pabda, GIFT Tilapia rearing as per scientific recommendations has helped in long-term rural livelihood improvement for the fish farmers.

**Keywords:** Fish farmer, Haldia, Rural livelihood.

### CASE STUDY I

Mrs. Arati Barman, with her four family members, resides in Dwariberia village (Haldia block) of Purba Medinipur district in West Bengal. She owns 3.5 hectares of land most of which is in the own village and villages of Tamluk Block. She generally used to cultivate Indian Major Carps. Initially, at a young age, she was shelling 'ghugni muri' at local melas to run their family. She has a pond of 0.13 (1 bigha) hectare besides her residence where she cultivated fish in an extensive ways without any scientific management. Because of an erratic and insufficient household income, their nutritional requirements were barely met prior to 2008. After that Mrs. Arati Barman got Govt. assistant with a bank loan for the renovation of her pond in the year 2015-2016, as well as she participated in a Fish culture training programme conducted under Dept. of Fisheries, Govt. of WB. From this intervention, she has got profit. After getting good profit she decided to convert her rice field for fish cultivation. Even though she invest a huge amount of money she got a net profit from fish farming which she expected to increase in the next year. It has significantly changed her standard of living. She received state-level "Meen Mitra" award from dept. of fisheries, Govt. of West Bengal. It is one of the best examples of

family fish farming. This farmer is associated with family farming and kept close contact with the fisheries department of the Haldia block. This farmer joins the government fisheries training camp and enhances the efficiency of his work, and has also improved the integrated fish cultivation by implementing various government projects. This is one of the best examples which encourage other fish farmers. This topic has been published in the newspaper.



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Photo: Mrs. Arati Barman

### CASE STUDY II

Mr. Sudip Bikash Khatua, who believes that fisheries are one of the major components of development, is one of the beneficiaries under family farming farm school, Haldia. He is from Barbasudevpur village of Haldia Block. His family consists of his wife & widow sister-in-law. He is very much enthusiastic & energetic farmer of age 55. His family's main source of livelihood is only fish farming. He is being supported by RKVY Scheme. He construction of fish farming in 4 hectare of his own land. He has a backyard small scale ornamental fish breeding & rearing unit. Now he became self-sufficient and continues culturing of fish in integration of horticulture. He received National Best Fish Farmer award from Central Inland Fisheries Research Institute. This farmer is associated with family farming and kept close contact with fisheries department of the Haldia block. This farmer joins the government fisheries training camp and enhances the efficiency of his work, and has also improved the integrated fish cultivation by implementing various government projects. This is one of the best examples which encourage other fish farmers. This topic has been published in the newspaper.



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Photo: Mr. Sudip Bikash Khatua

### CASE STUDY III

Mr. Sarat Chandra Bhawmik is a energetic & optimistic farmer from Basanchak village of Haldia block. He is an under metric & his family consist of his wife, daughter, son & himself. The main source of their livelihood is pisciculture only. His total water area holding is 60 bighas. He has duck cum fishery, horticulture. He is also being provided training on Integrated Farming System & improved cultivation practices under department of Fishries.

He has cultivated vegetables in two bighas of land. Vegetables grown are mostly used in household consumption .Moreover, some of the quantities are sold in market from where he earned. He successfully cultured Pabda Fish, Pengba Fish. This farmer is associated with family farming and kept close contact with fisheries department of the Haldia block. This farmer joins the government fisheries training camp and enhances the efficiency of his work, and has also improved the integrated fish cultivation by implementing various government projects. This is one of the best examples which encourage other fish farmers. This topic has been published in the newspaper.



Pengba Fish

Photo: Mr. Sarat Chandra Bhowmik with his wife

### CASE STUDY IV

Fish is one of the favorite items of the diet of Bengalis people. Integration of livestock, fish and horticulture in a one plot of 10 bigha land can bring a new hope for the small and marginal farmers. Mr. Rangalal Samanta (age 42 years) is a H.S. passed farmer of village Dwariberia of Haldia Block. Successfully implemented Genetically Improved Farm Tilapia (GIFT Tilapia) experimental trail run by dept. of fisheries, West Bengal. This farmer is associated with family farming and kept close contact with fisheries department of the Haldia block. This farmer joins the government fisheries training camp and enhances the efficiency of his work, and has also improved the integrated fish cultivation by implementing various government projects. This is one of the best examples which encourage other fish farmers. This topic has been published in the newspaper.



Photo : Mr. Rangalal Samanta



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### CASE STUDY V

Mr. Mrinmoy Samanta is a young energetic farmer from Dwariberia village of Haldia block. He is an under Madhyamik & his family consist of mother, father, his wife & himself. The main source of their livelihood is pisciculture only. His total water area land around 30 bigha. He has cultivated Indian major Carp. He is also being provided training on Integrated Farming System & family fish farming Practices under fisheries department. Implemented DC (Demonstration Center) scheme on MSMH( Multiple Stocking Multiple Harvesting) .

He has total 30 Bigha land including lease. He is a successful fish farmer for the culture of Amur Carp, Jayanti Rohu along with Indian Major Carp. He received Kriti Krishak award in Mati Utsav for successful culture of Amur Carp. This farmer is associated with family farming and kept close contact with fisheries department of the Haldia block. This farmer joins the government fisheries training camp and enhances the efficiency of his work, and has also improved the integrated fish cultivation by implementing various government projects. This is one of the best examples which encourage other fish farmers. This topic has been published in the newspaper.



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**CASE STUDY VI**

Mr. Subrata Maity is an energetic & optimistic farmer from Basanchak village of Haldia block. He is an under metric & his family consist of mother, his wife, two daughter & himself. The main source of their livelihood is pisciculture only. His total water area holding is 10 bighas. He has backyard small hatchery. Hatchery runs by husband & wife together. They attend various training. Now he gets an IMC Hatchery scheme under blue revolution. It is a one of the best example of family fish farming. This farmer is associated with family farming and kept close contact with fisheries department of the Haldia block. This farmer joins the government fisheries training camp and enhances the efficiency of his work, and has also improved the integrated fish cultivation by implementing various government projects. This is one of the

best examples which encourage other fish farmers. This topic has been published in the newspaper.



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Mr. Subrata Maity & his Wife

### CASE STUDY VII

Mr. Narayan Barman & his family totally involve in various type of fish culture. Total 40 Bigha fisheries situated at Dwariberia Village of Haldia Block. Narayan Barman received 'Meen Mitra' award from state fishery department. He successfully implemented Rastriya Krishi Vikash Yojona schemes in intensive-fish farming. He utilized pond dyke as ornaments trees. This farmer is associated with family farming and kept close contact with fisheries department of the Haldia block. This farmer joins the government fisheries training camp and enhances the efficiency of his work, and has also improved the integrated fish cultivation by implementing various government projects. This is one of the best examples which encourage other fish farmers. This topic has been published in the newspaper.



Photo: Mr. Narayan Barman

## CASE STUDY VIII

Mr. Krishnaprasad Samanta is versatile progressive fish farmer. He attends various type of fishery training under dept. of fisheries. Successfully cultivate a new fish species i.e. Milk Fish along with other fresh water culturable species & integrated fishery management practices. Successfully implemented Demonstration Center on MSMH concept. This farmer is associated with family farming and kept close contact with fisheries department of the Haldia block. This farmer joins the government fisheries training camp and enhances the efficiency of his work, and has also improved the integrated fish cultivation by implementing various government projects. This is one of the best examples which encourage other fish farmers. This topic has been published in the newspaper.



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