

## SUCCESS STORY

### Doubling of Pre-Monsoon spawn production at Amalgamated Plantation Private Limited (TATA), Hathikuli, Assam using CIFABROOD™

The fish seed production unit (Eco Hatchery) of Amalgamated Plantation Private Limited (TATA) is based at Hathikuli tea estate within Kaziranga National Park, Assam. The farm was selected for undertaking feeding trial on CIFABROOD™ during the pre-monsoon period. About 800 Kg of IMC brooders were fed with CIFABROOD™. Bag feeding was done @ 2% of body weight twice a day for a period of 1 month. In order to study the efficacy of the CIFABROOD™ over the traditional feed, a group of brooders were fed with traditional farm made feed, thus acting as the control for the experiment. Towards the end of 1-month trial, grass carp and silver carp were found fully matured and the IMCs in the maturing stage.

At the end of 2 months trials, all the fishes (Rohu, Catla, Mrigal, Silver carp, Grass carp, Kuri) fed with CIFABROOD™ were successfully bred during the pre-monsoon and produced 9.71 crores of water hardened eggs leading to the production of 5.45 crores spawn. The farm record shows that there was a sharp increase in the spawn harvest as compared to the previous year indicating the efficacy of the CIFABROOD™.

#### Comparison of pre-monsoon (April-May) breeding performances at Hathikuli farm

Criteria	2018 (Traditional feed)	2019 (CIFABROOD™)	Increment/Gain
No. of brood pond used	06	01	-5
Date of 1 <sup>st</sup> breeding	23.04.2018	04.04.2019	Preponed by 19 days
No. of breeding programs taken up	13	18	5
Female broods used (kg)	276.8	343.6	65.9
Egg produced (liters)	2465	4855.5	2390.50
Relative Fecundity (lakhs per kg body weight)	1.78	2.82	1.04 (increased by 58.42%)
Total Spawn recovery (crores)	1.94	5.45	3.51
Relative Spawn recovery (lakhs per kg body weight)	0.70	1.58	0.88

CIFABROOD™ has shown its effect on early maturation, egg production and spawn recovery and hence it can be used to increase the annual spawn production in the aquaculture farms.



**Demonstration of CIFABROOD™ at Amalgamated Plantation Private Limited (TATA), Hathikuli, Assam**



**Netting of Brooder pond**



**Conditioning of Brooders**



**Injecting Brooders**