White Crane®
AQUATECH

WCSS

NATURALLY PURIFIED WATER

White Crane
SMART
SYSTEM

- No water exchange system
- No chemical used
- Clean water & pond bottom
- Prevent from disease

WCSS

White Crane Smart System

Clean water & pond bottom in long term

Prevent from disease and business loss

Cost saving for pond cleaning and shirmp investment

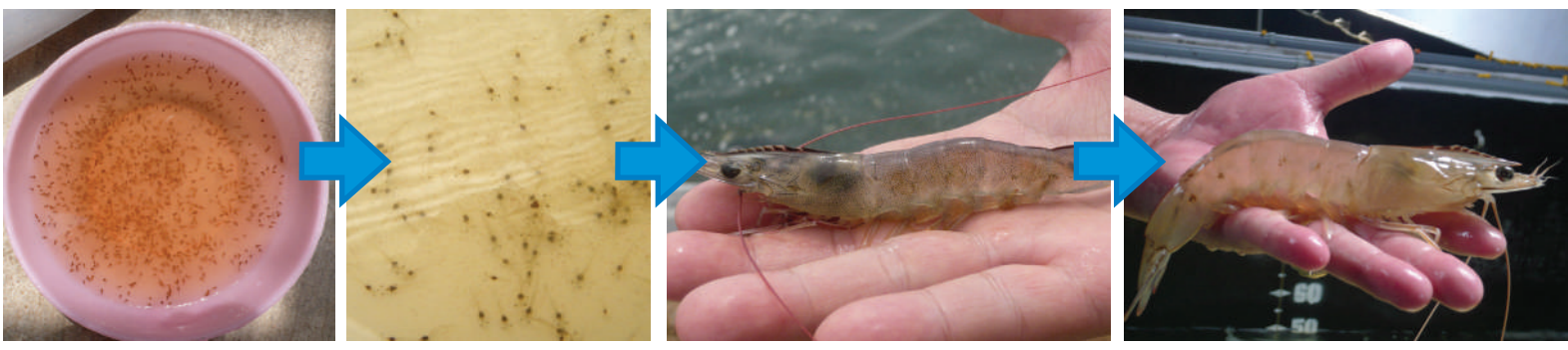
Advance shrimp culture system

WCSS

Before going further one must understand, we are entering into a biological shrimp culture concept. Which means we are using beneficial bacteria to purify water instead of using chemical disinfectant or antibiotics. Most farmers do not understand the cause of problems, so they do not prevent.

In our No Water Change System, it is most important to keep cleanest environment in your pond. When we say clean environment, it means both clean water and clean pond bottom. It is important to understand that more shrimps create more waste, therefore the usage of biological product will have to match the amount of feed given to the pond. If more food given and not enough biological product used, it does not balance, so water will pollute more and problem will arise.

White Crane is the first company that came up with No Water Change shrimp culture since 1988. The No Water Change System was finally accepted in Thailand and abroad after more than 10 years of broadcasting, however more than 99% of the farmers do not adopt the correct way of pure NONE CHEMICAL culture and lead to many failure.



White Crane SMART SYSTEM

AIC

Advance Intensive Culture

Pond size	4,000 m^2 pond x **1.80 m depth**
Stocking density	150,000 pcs
DOC	120 days
Harvest	5 ton
Size	25 pcs/kg
FCR	1.3

Step 1
Pond bottom preparation

Fill in water 30 cm, apply BioChip 4 bags daily for 3 days, then wait for one week to see if any lab lab come. If lab lab still available, repeat Step 1. If no lab lab occur, proceed to Step 2.

Step 2
Water culture

Top up water to 1.80 meter depth. Add 6 kg FF (fermented food)* once every 2 days for 3 times. Adjust water parameter to standard level before stocking. Calcium 400 ppm, Magnesium 1,200 ppm, Alkaline 130+ ppm, pH 8.1-8.3. After 7 days, plankton should be present, brown water should be seen, stocking can be done. Proceed to step 3.

Step 3
Fry culture

Fry culture 14-16 days Put in fry on Day 8-10 or whenever ready. After 3 days of stocking fry, add 6 kg FF (fermented food)* once per week. Feed 1 kilo per 100,000 fry daily, and increase 10% feed daily until 1 gram body weight. Mix TonicFeed to food daily every meal all the way till harvest.

Step 4
Shrimp culture

Add TonicFeed to feed daily every meal all the way till harvest. Apply 5 kilo FF (Fermented Feed)* once per week as feed for zoo plankton. At DOC 30, start to apply BioChip 1 kilo once per week at pond center. At DOC 75, apply BioChip 1 kilo every 5 days at pond center. All the way until harvest.

White Crane SMART SYSTEM

White Crane® AQUATECH

AEC

Advance Extensive Culture

Pond size	4,000 m^2 pond x **1.80 m depth**
Stocking density	30,000 pcs
DOC	120 days
Harvest	1 ton
Size	20-25 pcs/kg
FCR	1.3

Step 1
Pond bottom preparation

Fill in water 30 cm, apply BioChip 4 bags daily for 3 days, then wait for one week to see if any lab lab come. If lab lab still available, repeat Step 1. If no lab lab occur, proceed to Step 2.

Step 2
Water culture

Top up water to satisfactory level. Add 6 kg FF (fermented food)* once every 3 days for 3 times. Adjust water parameter to standard level before stocking. Calcium 400 ppm, Magnesium 1,200 ppm, Alkaline 130+ ppm, pH 8.1-8.3. After 7 days, plankton should be present, brown water should be seen, stocking can be done. Proceed to step 3.

Step 3
Fry culture

Fry culture 14-16 days Put in fry on Day 8-10 or whenever ready. After 3 days of stocking fry, add 4 kg FF (fermented food)* once per week. Feed 400 gram feed daily, and increase 10% feed daily until 1 gram body weight. Mix TonicFeed to food daily every meal all the way till harvest.

Step 4
Feed rate for 50,000 fry in kilo

1 gram 5	13 - 21	25 - 30.5
2 - 7.5	14 - 22	26 - 31
3 - 9	15 - 23	27 - 31.5
4 - 10	16 -24	28 - 32
5 - 12	17 - 25	29 - 32.5
6 - 13	18 - 26	30 - 33
7 - 14	19 - 27	31 - 33.5
8 - 15	20 - 28	32 - 34
9 - 16.5	21 - 28.5	33 - 34.5
10 - 18	22 - 29	34 - 35
11 - 19	23 - 29.5	35 - 35.5
12 - 20	24 - 30	Add 0.5 kilo per gram

Making FF* (Fermented Food)

1. Put 6 tablets in 6 litre drinking water and activate for 24 hours.
2. Put 6 kilo shrimp feed in styrofoam box and add activated liquid. Mix well and close lid tight. Let it ferment for 48 hours before usage.
3. Put FF to bucket and add more pond water to dilute and liquidize through blue net and apply all over the pond.

Pond 7

Before 04/03/0563 09/03/0563 12/03/0563

Pond 8

Before 04/03/0563 06/03/0563 10/03/0563

Product

White Crane® AQUATECH

BioChip

content 1 kg

BioChip
is a biological product to clean pond bottom.
When pond bottom is clean, shrimps will eat more, molt regularly, and grow faster.

Usage:
During culture - when pond water become too green, use BioChip 1 bag (1 kilo) per 1,000 m² pond daily at 6.00 p.m. to reduce green water until satisfactory level.

When water pH in the afternoon is above 8.3, use BioChip 1 bag (1 kilo) per 1,000 m² pond daily at 6.00 p.m. to reduce water pH in the afternoon until satisfactory level.

During culture – if shrimps does not molt, has broken antenna, broken leg, and black gill, apply 1 bag (1 kg) per 1,000 m² pond. Shrimps will molt and problems will be cleared.

To clean up pond bottom after every harvest before adding water for next culture. Apply 1 bag (1 kilo) per 1,000 m² with 30 cm. water, daily for 3 days until pond bottom is clean, no lab lab or algae growing in pond bottom before adding water.

BioAqua

content 100 g

BioAqua
very highly concentrated bacteria to prevent green water and water pollution in aquaculture ponds.

Usage:
10 tablets (10 gram) into 5 litre drinking water and let it activate for 24 hour. Apply 1 litre for 1,000 m² area or 5 liters per acre (1.2 m depth).

Tonicfeed

content 100 g

TonicFeed
a probiotic feed additive for preventing green water, enhancing feed intake, better growth, good FCR, prevent disease.

Usage:
1 tablet (2.5 gram) into 2 liters drinking water and let it activate for 24 hours. Pour activated TonicFeed into one bag shrimp feed (20-25 kilo).

***** VERY IMPORTANT*****
NEVER USE DISINFECTANT IN SHRIMP POND

BioAqua

Excessive protein can cause many kinds of phytoplankton. When these excessive phytoplankton die off, they sink to bottom and turn to lab lab. These phytoplankton or dead plankton or lab lab will need oxygen to live or to digest themselves.

Before

After

Day 2 (second treatment)

Day 4 (after 3 days of treatment)

Green water has high amount of phyto plankton which will cause high pH fluctuation between morning and late afternoon. This will cause big stress to your shrimps. More over the green plankton will absorb high amount of oxygen making low DO in water during night time.

BioChip removes

- black mud
- H_2S
- bad odor
- lab lab





Brown Water

Good Water

White Crane®
AQUATECH

Muddy water is good water.

Dead plankton create high protein.

We Care for health & environment

Manufactured by :

WHITE CRANE (V.88) AQUA-TECH CO.,LTD.

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