

## **SOMPORN ' S BLACK TIGER PRAWN FARM**

Punpin District, Surat Thani Province

He has eight ponds. One pond is 5 rai (2 acre/0.8 ha). 80,000-100,000 baby prawns/rai (200,000-250,000 prawns/acre or 500,000-625,000 prawns/ha) were launched in a pond.

### **USE OF EM**

1. After harvesting 235 kilos (125 kilos/acre or 315 kilos/ha) of Bokashi is spread on sludge at the bottom of a pond.
2. Water is pumped and filtered into the pond to prevent many kinds of fries and their eggs, until it is 90-100 centimeters high.
3. Two hundred litres of multiplied EM/rai are put in the pond, and leave for 5-7 days. Water is aerated 4-5 hours/day, during 5-7 days. Four days before launching, 30 kilos of Bokashi/rai are spread throughout the pond for having plankton.
4. Two hundred litres of multiplied EM are sprayed every 5 days alternate with 25 litres of EM5 until they are 70 days old.
5. For 70-120 days old, multiplied EM and EM5 the same amount as the above are sprayed every three days until they are harvested.
6. Ten kilos of feed are mixed with 1.5 litres of multiplied EM, and leave for 4 hours before feeding. The excess of feed will destroy bentose and cause to lose balance of environment, which is harmful.

### **WATER MONITORING**

During the growing period, water quality is very important to them. If it loses balance of nature, the prawns might be weak, unappetizing and dead. So the water is monitored like this:

1. pH is checked two times a day, in the morning and evening. If the differences between morning and evening are more than 0.5, multiplied EM will be sprayed in the pond.
2. Ammonia will be checked, if the water becomes dark green. Forty litres of EM5 will be sprayed in the pond if there is too much ammonia.
3. If salinity reduces less than 10 ppt, a small bag of salt (200grams) will be added and mixed with 10 kilos of feed and multiplied EM.
4. If there is too much algae, the water have to be stopped to aerate at daytime.
5. Two-three litres of EM5 will be sprayed into the pond if there are toxic plankton, Zootanium and Anabena.
6. When the color of water becomes smoky white which is harmful to prawns, seven kilos (4 kilos/acre or 9 kilos/ha) of Bokashi will be spread.

### **DISEASES**

1. Be careful not to buy infected baby prawns.
2. If disease happens such as red body, white spot, luminescence disease and other infections of *Vibrio* spp. or *Escherichia coli*, one litre of EM5 will be mixed with 10 kilos of feed and leave for four hours before feeding everyday for a week.

3. Ten litres of multiplied EM will be sprayed in the pond if the prawns float on the surface of the water.
4. Forty litres of EM5 will be sprayed into the pond if they cannot molt because of too many algae.

## **RESULTS**

1. The prawns have no muddy smell.
2. Bad smell of sludge is suppressed.
3. The amount of sludge reduces.
4. It is low cost outlay but high income.
5. Nature and the environment are conserved.

## **EM5 PREPARATION**

EM	1 litre
Molasses	1 litre
Vinegar	1 litre
Ethyl alcohol	2 litres

The above is mixed and left for 24 hours under anaerobic condition before use.

## **MULTIPLIED EM PREPARATION**

EM	1 litre
Molasses	1 litre
Water	20 litres

Water The above is mixed and left for three days under anaerobic condition before use.