



Minutes of Meeting

Topic : Nursery development and wastewater management workshop follow up

Date : May 2, 2021

Time : 15.45 – 17.00 WIB

Location : <https://us02web.zoom.us/>

Attendees :

Budhi Wibowo	Pamudi
Haris Muhtadi	Coco Kokarkin
Harry Juli	Anna Maria
Bambang Widigdo	Retno Nuraini
Supito	Agus Soma

Notes :

Key resume

- Nursery
 - FUI will promote nursery development as the system can potentially minimize the impact of disease occurrence, and can increase the total production cycle in a year
 - It is expected that more farms applied nursery system in this year
 - FUI plans to carry out a webinar on nursery system development this month
 - FUI plans to draft guideline for nursery development and the economic study on that it is feasible to adopt by farmers
- Wastewater treatment management
 - FUI plans to draft a technical guideline for wastewater treatment for shrimp farm
 - There will a discussion group made with some FUI members and wastewater anagement expert to draft the document

Detail MoM

- Budhi
 - How nursery development may increase farm productivity?
- Haris
 - Similar period on grow-out pond, longer period on nursery – be done outside grow-out pond: more production cycle per year
 - More ponds – more cycles
 - Previous nursery trial
 - Be done at the outdoor area.
 - During trial, farms were relatively more resistant to AHPND
 - PL used at grow-out pond: PL 26-27 (0.5-0.79 gr)
- Bambang



- If PL 20 used at grow-out pond; how is the recovery of shrimp growth at grow-out pond?
- When was the trial done? If not during outbreak, the result may lead to confusion
- May need to re-trial the nursery system during AHPND outbreak
- Haris
 - Weakness of trial at farms: cannot be statistically measured as ideally done at the academic research
 - Cannot be concluded statistically
 - Previous trial with INVE – suggested indoor system, however due to budget limitation cannot only be done in the outdoor area
 - Nursery pond – using culture pond, and shaped in circle form in the mid part
- Bambang
 - Why indoor? Optimum biosecurity set up – to prevent disease dispersal through the air
 - Important to set up nursery trial based on the main aim of nursery development – may need an indoor setting
- Haris
 - Another nursery development pilot project in Cirebon – will shared the result soon
- Budhi
 - Is there available already a nursery system SOP?
- Agus Soma
 - Is currently conducting nursery system trial at farm
 - 1 nursery – fro 1 or 2 grow-out ponds (depend on the density at grow out)
 - the sludge is dried and formed into brick
- Budhi
 - Two types of nursery
 - Internal farm nursery -> available at farmers farm (outdoor system)
 - Nursery business – managed by hatchery (indoor system)
- Pak Coco
 - Lesson learned from Thailand
 - Using a container like a water tank (torrent) to move PL from nursery ponds to grow-out ponds. No plastic, Styrofoam
 - Challenge: the size of PL in nursery system can be varies
 - Does the metabolite substance left at pond affect that? Or probiotic? Or maybe feeding strategy?
 - Need further research on that
- Budhi
 - Need to draft an SOP to adopt by farmer in different area
 - Farmers in the southern part of Thailand have established nursery system in their own farm
 - Workshop about nursery development
 - Speaker



- An expert from Thailand and Vietnam?
- Local practitioner expert – who has applied nursery system
- Target: to provide a technical SOP, consider the economic calculation – feasible to adopt by farmers with different farming system