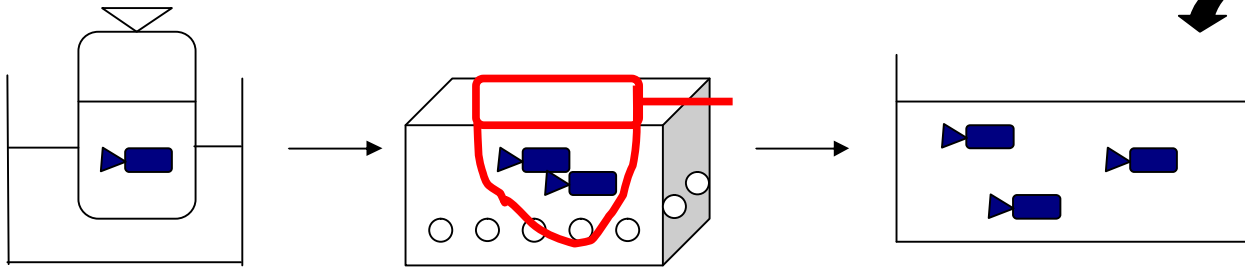


APPENDIX I: BIOSECURITY SOP FOR QUARANTINE OF FISH




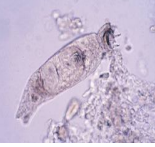



Soak packing bags with fish in the tank water to acclimatize the temperature of the packing water with the tank water.

Release fishes by using net and container e.g Tank or Styrofoam box with holes. Do not pour water from the bag to the stocking tank.



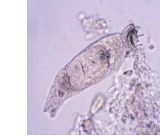

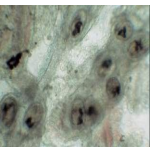




Add Remedor Aquatic at 1-2 ppm to reduce and prevent bacterial, viral and fungal infections in the water. Remedor Aquatic does not effect plankton.

Disinfect your reservoir or tank water with AQUASEPT 3.0, a low residue chlorine tablet.

After 2-3 days do a 30% water changes.

Diseases	Application
 <i>Dactylogyrus sp.</i>  <i>Lernae sp.</i>  <i>Argulus sp.</i>  <i>Chilodonella sp.</i>	<p>Treat fishes for athropods and protozoan parasites using Neguvon (Trichlorfon 97%) at 0.2-0.5ppm. Long bath is preferred and treatment should be repeated after 7 days. For prevention, Neguvon can be used once a month.</p>
 <i>Gyrodactylus sp.</i>  <i>Ichthyophthirius multifiliis</i>  <i>Ergasilus sp.</i>  <i>Trichodina sp.</i>	 <p>Effective against <i>Argulus sp.</i>, <i>Lernae sp.</i>, <i>Ergasilus sp.</i>, <i>Trichodina sp.</i>, <i>Gyrodactylus sp.</i>, <i>Dactylogyrus sp.</i>, <i>Ichthyophthirius sp.</i>, <i>Chilodonella sp.</i></p>

Change water after 24 hours

Diseases	Application
 <i>Dactylogyrus sp.</i>  <i>Sanguinicola sp.</i>  <i>Gyrodactylus sp.</i>  <i>Nematode</i>	<p>Eradicate the internal parasites and flukes such as skin, gill and blood flukes using Hadaclean . Dosage at 8-10g/kg of feed. Feed to the quarantine fish for 3 days.</p> <p>**This treatment needs to be repeated 3 times over 2-3 weeks. For prevention, Hadaclean can be used once a month, fed for 3 days.</p>
 <i>Metacercaria</i>  <i>Camallanus sp.</i>  <i>Trematode</i>  <i>Botriocephalus sp.</i>	<p>Effective against Nematode, Cestode, Flukes, Metacercaria & Acanthocephalean .</p> 

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POND PREPARATION FOR FRESHWATER FISH FRY

Drain and dry pond until the bottom cracks or hardens sufficiently to support a man's weight without sinking more than 1 feet.

Apply lime as soil conditioner.

Fill water to required level. Filter water to prevent introducing inferior wild fish and eggs.

Apply organic/inorganic fertilizer 22kg/ha for plankton production. Then 3 days before stocking apply **PondPlus** at 100g per acre pond to introduce good bacteria and to ensure good algal balance, bloom and pond colour.

After 1 week

Stock fingerlings (**early morning or late afternoon**). Ensure temperature in the plastic bag is the same as the pond water. Introduce water from the pond to the bag. Release the fish by tilting the bag one side to allow pond water to fill gently to the bag. Allow fish to swim voluntarily. Fry should be quarantine prior to stocking.

* Apply **Neguvon** at 0.2-0.4 ppm to kill crustacean predator such as dragonfly nymph etc.

* If you encounter an emergency situation such as ammonia problem during culture period, use **PondProtect** at 400g per acre pond to reduce ammonia and nitrite.



* These dosages are only a guideline and application should be adjusted based on observation, pond condition & species.