

## 9. Aqua Culture and Fisheries

<b>Stages</b>	<b>Technology Readiness Level</b>	<b>Definition</b>
Ideation	TRL-1	Basic principles of technology observed and reported
Proof of Principle	TRL-2	Technology/application developed, formulated and protocols developed.
Proof of concept demonstrated	TRL-3	Active research initiated, synthesis and characterizations of the product by laboratory studies.
Proof of concept established	TRL-4	Pilot scale production, characterizations and technology validation in lab environment
Early stage validation	TRL-5	Component and or basic subsystem technology tested /validated in controlled conditions in smaller tanks in laboratory/hatchery with proper control following statistically designed protocols
Early stage validation	TRL-6	System or subsystem technology model or prototype demonstration in a relevant pond [operational] environment following statistically designed methods with suitable controls. Regulatory approval if applicable
Late stage Validation	TRL-7	The system/subsystem technology to be ready for transfer to end user after obtaining the regulatory approval from a reputed agency
Pre-commercialization	TRL-8	Third party Validation , preferably government agencies, Regulatory approval for the New Application and provides commercial manufacturing license for market introduction
Commercialization and post market studies	TRL-9	Commercial launch, Post marketing studies and surveillance