

## National Referral Laboratory for Brackishwater Aquatic Animal Diseases

A national referral laboratory for Brackishwater Aquatic Animal Diseases was established under the project on National Surveillance Programme on Aquatic Animal Diseases (NSPAAD) funded by National Fisheries Development Board, Hyderabad. This state-of-the-art laboratory with sophisticated equipment is located at Muttukadu Experimental Station (MES) of ICAR-CIBA to carry out different diagnostic services and analysis for brackishwater fish & shellfish, live feed, microbial products, soil and water. The following pathogens and the respective protocols are used for routine diagnosis for the clients.

Sl. No.	Pathogen(s)	Reference
1	White Spot Syndrome Virus (WSSV)	OIE, 2019
2	Infectious Hypodermal and Haematopoietic Necrosis Virus (IHHNV)	OIE, 2019
3	Yellow Head Virus (YHV)	OIE, 2019
4	Taura Syndrome Virus (TSV)	OIE, 2019
5	Infectious Myonecrosis Virus (IMNV)	OIE, 2019
6	Acute Hepatopancreatic Necrosis Disease (AHPND)	OIE, 2019
7	Necrotising Hepatopancreatitis Bacteria (NHPB)	IQ 2000 kit (Gene Reach)
8	<i>Enterocytozoon hepatopenaei</i> (EHP)	Jaroenlak <i>et al.</i> , 2016
9	Viral Nervous Necrosis (VNN)	OIE, 2019
10	Red Seabream Iridovirus (RSIV)	OIE, 2019
11	Tilapia Lake Virus (TiLV)	Eyngor <i>et al.</i> , 2014; Tsofack <i>et al.</i> , 2017

Apart from routine diagnostic services (Level I, II and III), the laboratory also performs quarantine health check-up for exotic animals, provides advisory and consultancy services, conducts wet lab experiments to check viability, infectious status and virulence of the pathogens, provides community training and interactive programme and periodically publishes information on aquatic animal health aspects.

The clientele of this laboratory include farmers from coastal states and inland saline area, corporate/stake holders who owns hatchery, farm or processing plants, different research institutes for confirmation of pathogen status, Broodstock Multiplication Centres (BMC), Aquatic Quarantine Facility (AQF) for pathogen confirmation or detection of emerging pathogens and Animal Quarantine Certification Services (AQCS) of Delhi, Mumbai, Kolkata, Hyderabad and Chennai region to obtain pathogen free status of different imported products.

A nominal fee of ₹2000.00 per pathogen for corporate/stake holders and ₹600.00 for farmers (additional 18% as GST) is charged for the service provided.