

# AQUATIC ANIMAL HEALTH & QUALITY TESTING LABORATORY (AAH&QTL)



**National Fisheries Development Board**  
Department of Fisheries  
Ministry of Fisheries, Animal Husbandry and Dairying  
Government of India



## PREAMBLE

NFDB has established 'Aquatic Animal Health and Quality Testing Laboratory' (AAH&QTL) at Hyderabad to analyze the samples received from fish farmers; hatchery operators, processing industry, markets and other stakeholders and to provide diagnostic services to fish farmers following standards laboratory protocols. The AAH&QTL aims to benefit aquaculture farmers of the country by offering services including disease and residues testing in crustaceans, fin-fishes & other aquatic animals meant for national and international trade. The laboratory also has facilities for water, soil and feed quality analysis. The laboratory is operated by highly qualified and experienced staff to provide quick and accurate results.

## FACILITIES AVAILABLE

The AAH&QTL is equipped with all the latest disease diagnostic and residue analysis tools and has four component units, which together help in diagnosis of various diseases and residues, affecting fish and fishery products. Laboratory is fully equipped with state of the art facilities, to provide services like:

- Molecular diagnostics of Fish and Shell Fish Diseases
- Quality Testing of Seed, Feed, Soil, Water
- Quality Testing of End Products/Commodities
- Development of fish disease diagnostic kits and markers for disease identification
- Fish barcoding, genotyping (16s, ITS, D1 region), sequencing and Ribo-typing
- Characterising aquatic genetic resources to discover valuable genomic information
- Testing of probiotics
- Inter laboratory proficiency testing programmes
- Training personnel in Aquatic Animal Health



Recognized by Coastal  
Aquaculture Authority(CAA),  
GOI, Chennai

Aquatic Animal Health and Quality Testing Laboratory is committed to cutting edge molecular diagnostics and residual testing, by introducing the most advanced and comprehensive techniques for the benefit of the aquaculture farmers, who require on accurate diagnosis and effective quality testing of fish and fishery products.

The Referral lab is recognized by Coastal Aquaculture Authority as "**National Referral Laboratory of CAA for Aquaculture**" to test the samples mandated under Coastal Aquaculture Authority Act.



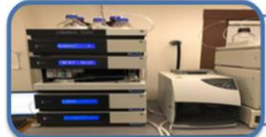
## LABORATORY DIVISIONS



- Molecular Diagnostics



- Microbiology



- Residue Testing



- Water, Soil & Feed Analysis

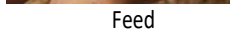
## TYPES OF SAMPLES



Soil



Water



Feed



Fish



Shrimp



Crabs

## SERVICES OFFERED BY AAH&QTL

Sample	Parameter
Shrimp & Shrimp products	<ol style="list-style-type: none"> <li>1. White Spot Syndrome Virus (WSSV)</li> <li>2. IHHNV (Infectious Hypodermal &amp; Hematopoietic Necrosis Virus)</li> <li>3. <i>Enterocytozoon hepatopenaei</i> (EHP)</li> <li>4. Infection with <i>Hepatobacter penaei</i> (Necrotising hepatopancreatitis-NHP)</li> <li>5. Acute hepatopancreatic necrosis disease (AHPND)</li> </ol>
Prawn & Prawn products	MrNV ( <i>Macrobrachium rosenbergii</i> Noda Virus)
Fish & fish products	<ol style="list-style-type: none"> <li>1. Epizootic Ulcerative Syndrome (EUS)</li> <li>2. Viral encephalopathy and retinopathy</li> <li>3. Carp Edema Virus disease</li> </ol>
Water testing	pH, DO, Total Hardness, Alkalinity, Salinity, Ammonia, Turbidity, Temperature, TDS, Nutrients, BOD, COD, Plankton etc.
Soil testing	pH, Organic Carbon, Phosphorous, Nitrogen, C/N ratio, Soil Texture etc.
Feed testing	<ol style="list-style-type: none"> <li>1. Proximate analysis</li> <li>2. Acid insoluble ash</li> <li>3. Energy value by Bomb Calorimeter</li> <li>4. Amino acid composition by HPLC</li> <li>5. Fatty acid composition by GC</li> <li>6. Mineral content by AAS</li> </ol>

## ADVANCED EQUIPMENT



RT-PCR

SEQUENCER



Gel-Doc



HPLC UNIT



GCMS



AAS

## CONTACT INFORMATION

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