CIBA EHP Cura I: A Patented Phytobiotic Solution for EHP Management in Shrimp Aquaculture – Ready for Commercial Licensing .

Developed by the **ICAR-Central Institute of Brackishwater Aquaculture (ICAR-CIBA)**, **CIBA EHP Cura I** is a patented phytobiotic formulation for the effective control and management of ***Ecytonucleospora hepatopenaei*** **(EHP)**, a major disease responsible for severe growth retardation, size variation, reduced productivity, and annual economic losses exceeding **₹4,000 crore** to the Indian shrimp farming sector. Over six years of intensive research and extensive field validation, CIBA EHP Cura I is an industry-ready phytobiotic technology that provides an effective and sustainable solution for EHP management while creating a high-potential commercialization opportunity for aquaculture feed, health, and biotechnology companies.



CIBA EHP Cura I – A phytobiotic formulation

The formulation combines bioactive phytochemicals, hepatoprotective nutraceuticals, and functional nutritional supplements with proven anti-microsporidian, antimicrobial, immunomodulatory, and anti-inflammatory properties. It effectively suppresses EHP proliferation and Vibrio load while enhancing shrimp immunity, health, survival, and growth. The technology was validated through multi-location field trials in 114 EHP-affected commercial shrimp farms across six Indian states, demonstrating consistent efficacy under diverse farming systems, environmental conditions, and management practices. Already commercialized to leading aquaculture companies for large-scale production and market deployment, **CIBA EHP Cura I** is now open for licensing and commercialization to entrepreneurs and industry partners across India, enabling wider adoption of a proven, patented technology for sustainable and profitable shrimp aquaculture.

INTELLECTUAL PROPERTY INDIA

सत्यमेव जयते

क्रम सं/SL No :044207630

पेटेंट कार्यालय,भारत सरकार The Patent Office, Government Of India

पेटेंट प्रमाण पत्र | Patent Certificate

(पेटेंट नियमावली का नियम 74) | (Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.	:	590796
आवेदन सं. / Application No.	:	202441004322
फाइल करने की तारीख / Date of Filing	:	22/01/2024
पेटेंटी / Patentee	:	ICAR-CENTRAL INSTITUTE OF BRACKISHWATER AQUACULTURE

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित *COMPOSITION AND METHOD FOR CONTROLLING ECYTONUCLEOSPORA HEPATOPENAEI (EHP)* नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख जनवरी 2024 के बाईसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled *COMPOSITION AND METHOD FOR CONTROLLING ECYTONUCLEOSPORA HEPATOPENAEI (EHP)* as disclosed in the above mentioned application for the term of 20 years from the 22nd day of January 2024 in accordance with the provisions of the Patents Act,1970.

अनुदान की तारीख : 29/05/2026
Date of Grant :

उमाशंकर पंडित
पेटेंट नियंत्रक
Controller of Patents

टिप्पणी – इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, जनवरी 2026 के बाईसवें दिन को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 22nd day of January 2026 and on the same day in every year thereafter.



Multi-locational field validation and farmer adoption of the *CIBA EHP Cura I* in commercial shrimp across six shrimp farming states of India.



Outreach activities on *CIBA EHP Cura I* were conducted in Nagapattinam and Ramanathapuram (Tamil Nadu), Amalapuram and Bapatla (Andhra Pradesh), and Churu (Rajasthan), benefiting approximately 700 shrimp farmers.



Memorandum of Understanding (MoU) signing ceremony for the commercialisation and technology transfer of *CIBA EHP Cura I* to private industry partners for large-scale production and dissemination in the shrimp aquaculture sector.

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