

# INTELLECTUAL PROPERTIES OF CENTRAL INSTITUTE OF FRESHWATER AQUACULTURE

## A. Patents

### Filed:

1. Competitive ELISA for diagnosis and sero monitoring of microbial infections in cultured freshwater fishes (Application no. 1402/DEL/2003)
2. A process for differential sero-diagnosis of gram-negative bacterial infections and detection of their toxins in human food in reference to fish and fish products using polyclonal antibodies to their less cross reacting and highly specific extra cellular products antigen(Application no. 1403/DEL/2003)
3. A method and an apparatus for developing gonadal maturity in carp (2008-09) (Application no. 1689/DEL/2008)
4. A method of producing antibacterial extracts from fresh water algae (2011-12) (Application no 749/KOL/2011)
5. An artificial medium for in vitro culture of glochidia larvae of freshwater mussels (2011-12) (Application no 145/KOL/2012).

### Granted:

1. A manually operated low cost handy cryofreezer for gamete cryopreservation. (Application No. 1123/DEL/2005) [Patent No- 251022, Date of grant 16.02.2012].
2. Male-specific protein of Indian major carp (*Labeo rohita* Ham.) – A key for sex differentiation and brood stock management. (Application No. 1116/DEL/2005) [Patent No- 252072, Date of grant 24.04.2012].

## B. Designs

### In process:

1. Mechanical fish harvester (1/9/2008-218326 in Kolkata)
2. A diesel operated new aeration device for large aquaculture ponds ( 8.10.2008-218614 in Kolkata)

### Granted:

1. Mechanical Pond applicator (210262 in class12-99, 21. 05.2007).

## C. Trademarks

### Granted:

1. CIFAX (28.04.2008) (Application Regn. No.- 796393 in class 1 at Kolkata)
2. Jayanti rohu (30.6.2005) (Application Regn. No.- 1368991 in class 31 at Kolkata)
3. CIFABROOD Carp Brood stock diet (18.03.2011) (Application Regn. No.- 1792420 in class 31 at Kolkata, 05.03.2009)

## D. Copyrights

1. 25 years research in freshwater aquaculture
2. Lead paper on strategies for aquaculture development
3. Aquaculture innovator
4. Aquaculture technology for fish farmers (Hindi)
5. Portable carp hatchery technology
6. Ornamental fish breeding and culture for self employment of women (In Oriya)
7. Portable carp hatchery: journey so far
8. Breeding and seed production of carps (Oriya)
9. Biology, breeding and farming of important food fishes-pabda, *Ompok pabda*, tangra, *Mystus vitatus* and koi, *Anabas testudineus*
10. New initiatives in aquaculture
11. Ornamental fish farming
12. New initiatives in aquaculture extension
13. Identification of marine mammals in India
14. Aquaculture technology for fish farmers
15. Matsya beez utpadan dwara mahila swaying sahayata samuha ka sashaktikaran
16. Utpreerit karp prajnaana se mahilaon mein udhmata ki sangh0sti
17. Carp ki jaljkrishi
18. Methe jal mein jalkrishi

