Technology No. 5

ORGANIC AQUACULTURE THROUGH BIOFERTILIZER

Inventors: P. K. Pandey, C. S. Purushothaman, A. Vennila

Division: Aquatic Environment and Health Management Division

Technical details:

Nitrogen and phosphorus play a very important role in primary production. These nutrients are provided in aquaculture system from external sources in the form of organic manures and inorganic fertilizers. Certain organisms are capable of fixing atmospheric nitrogen and are capable of producing enzyme phosphatase. Large scale culture of nitrogen-fixing bacteria *Azetobacter chroococcum* and phosphatase-producing, *Bacillus* species are carried out separately. After achieving the density of 10^9 c.f.u./ml, broth culture of these bacteria are inoculated in sterilized and moist charcoal at room temperature to get 10^6-10^9 c.f.u./g of charcoal. Its shelf life is three months. It can be applied at the interval of 15 days in freshwater carp culture ponds.

Contact details:

Dr. K.V. Rajendran, Principal Scientist & Head, Aquatic Environment and Health Management Division, ICAR – CIFE, Mumbai

E-mail ID: kvrajendran@cife.edu.in

Contact No. : 91 22 26361446; Extn. 503 (0)