

# **Utilization of Waste in Integrated Aquaculture**

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## **Abstract**

Increase in population along with development of industrialization and modern lifestyle lead to the huge generation of wastes at an unprecedentedly rapid rate. Improper waste disposal and management practices have impacts on human health and the environment. Integrated aquaculture system is the blending of various farming system in a sustainable way having good production with low cost, less energy consumption and no waste production. The utilization of organic wastes in integrated aquaculture farming system increased the overall productivity, profitability, sustainability, ecofriendly environment, recycling of resources, and income generation round the year. In this system the various organic wastes (agriculture & household) is utilizing by means of reducing feed cost, obtaining faster growth and high yield of fish. Acquisition of new technologies for intensification of organic waste conversion to feed and fertilizer will improve the economic status of farmers and reduce environmental problems caused by household, agricultural and industrial organic wastes. Efficient utilization of organic waste in aquaculture reduces dependence on outside input and increases income, employment generation, while at the same time serving a very good purpose in efficient and effective waste management for a cleaner and healthier environment.

Key words; Waste, Aquaculture, Integrated aquaculture, Fish, Environment