5. "Technology for the production of silage using seafood industry waste for animal feed"

Duration: April 2015 – March 2017

A very great majority of fish and shellfish processing operations are carried out in shore-based processing facilities. The amount of waste produced during processing varies according to the species, type of raw material supplied and the type of product. Depending on the type of raw material, this can include the viscera, frame, skin, fins and head. As pelagic fish are typically supplied to processing facilities whole, the discarded waste material includes heads, viscera, frames, lugs, flaps and the products from shellfish processing include shells and viscera. This waste offers good protein supplement, essential amino acids and palatability-enhancing agents for use in animal foods. Hence, fish substrates have great potential to be used in the production of livestock feed. Thus the process developed in this study enables effective utilization of fish waste to produce protein and long chain fatty acid rich animal feeds. The poultry feed produced has a very good Feed conversion efficiency i.e., 1.60, which is comparable to that of commercially available poultry feed and the cost of production is also comparatively low. The "KVAFSU Ocean Poultry Feed" is devoid of chemical preservatives and other harmful additives. The storage stability of this feed is as good as commercial feed.