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Studying the Process of Extruding the Feeds with Adding the Alternative Source Proteins

Abstract: There are special requirements to the quality of feeds for aquaculture. The main deterrents in development of aquaculture in Russia and in the world are the lack of inexpensive, efficient biotechnologies, as well as technical means and environmentally friendly feeds. Unlike similar products for farm animals, the feeds for fish must contain the increased levels of protein, lipids, metabolizable energy and vitamins, as well as be resistant to the aggressive aquatic environment due to good water resistance and low crumbleability. Another problem existing in the industry is significant shortage of the high-quality fish and meat-and-bone meal, as well as deficit of the highly digestible protein – the key component of the starter feeds. According to the above data, there is a need for localized manufacturing of feeds and feed ingredients for the aquaculture industry facilities.