



University of Zabol  
Graduate school  
Faculty of Natural Resources  
Department of Fisheries

**The Thesis Submitted for the Degree of Master of Science  
(in the field of Fisheries)**

**Effect of different levels of dietary tomato waste  
powder on growth indices and feed efficiency of  
*Pangasius sutchi***

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## Abstract

In order to, evaluation of the effect of tomato waste powder (skin, seed and pulp) of diet on growth performance, feed efficiency indices and combination of carcass of *Pangasius sutchi*, number of 150 *Pangasius sutchi* fishes with weight mean at  $7.51 \pm 1.94$  g with completely randomized design were distributed in five testing group and in 15 number plastic tub with 60 liter capacity (5 treatment and 3 repeat) with 10 number fish in per tub, with identical environmental conditions. After one week adaptation, fishes were fed with five levels of 0 (control), 50, 100, 150 and 200 g tomato waste powder/kg diet for 8 weeks. Feeding rate was 3% of biomass weight and twice per day. According to the obtained results, adding the tomato waste powder to the feed diet of *Pangasius sutchi* fish up to the 200 g/kg diet, cause slight improving the growth indicators, efficiency of feeding and combination of carcass in this fish but don't indicate significant different with control treatment. Beside, based on chemical analyze of combination carcass, the fat of carcass in treatment with 200 g tomato waste powder were significantly lower than the control treatment ( $p < 0.05$ ). Results showed that adding of this product in level of 200 g/kg diet, in addition to being cause increase the growth of fish and improve the quality of fish meat, also decrease the product costs and can be leading to greater profitability.

Keywords: Tomato waste, Growth indices, Feed efficiency, *Pangasius sutchi*, Feed Conversion Ratio.