



Value Addition of Gold Fish *Carassius auratus* (Linnaeus) var. Comet through Colour Enhancement

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Abstract: Study was conducted for value addition of gold fish *Carassius auratus* (L.) var. Comet through colour enhancement by using natural pigment source i.e. powdered marigold petals. Four diets including one Control (C) and three experimental pelleted diets having 1 % (MG1), 2% (MG2) and 3 % (MG3) of powdered marigold petals in control diet [rice bran (45 %), mustard cake (45 %) and fish meal (10 %)] were prepared. Molasses was added as binder @ 5 % in all the diets. The study was conducted for 120 days. Colouration studies indicated maximum number of coloured fishes in MG2 (60%) followed by MG1 (40%), Control (20 %) and MG3 (5%). RGB colour intensity based on digital photographs analysis was also found to be maximum in MG2 followed by MG1, Control and MG3. Maximum survival of fish was found in MG2 (95 %) followed by MG1 (70 %), MG3 and control (50 % in each). Hence, it may be included that value addition of ornamental fishes can be carried out by incorporation of powdered marigold petals @ 2 % to increase its commercial value.

Key Words: Marigold Petals, Pigmentation, Carotenoids, Gold Fish, Colour Enhancement
