





**DESIGN OF NON-RETURN DEVICE IN TRAP FISHERY: MODEL TEST**

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## ABSTRACT

A study was done to evaluate the efficiency of a non-return device design of fish pot. In this study, three different types of valve (horse-neck, V-shaped and model test) were tested. The v-shapde and horse-neck valve and test model were design in Netlof (UMT). A tank with size of 300 x 123 x 90 cm with 70 cm of water level and 50 catfish (*Clarias* sp) (10.16cm in total length) were used in this experimental test. The fry were fasted two days before the evaluation test was conducted. After the two valves were tested, a modification on v-shaped valve was made. Each of the valves was tested three times (1 hour for each test). Results of the experiment showed that no single fry escaped from the test model compare to horse neck and v-shape model. The result showed that the test model was successful in detaining the fish in the trap and the design has potential to be applied in the capture fisheries sector.