

## ABSTRACT

The preliminary studying of cultivation Indian-oyster mushroom mixed coffee pulp as a major substance with other 4 materials (sawdust, rice straw, rice husk and coir fiber) in different percentage and the different mixture from three substances. The experiment was separate into two parts. The first part was studied the potential of two substance by mixing coffee pulp with 4 substances at 100:0, 75:25, 50:50, 25:75 and 0:100 (substance :coffee pulp). The second part, studied the potential of three substances by mixing coffee pulp with different substances in the ratio 1:1:1. The result showed that mushroom from 100% coffee pulp substance could grow but gained lowest yield and longest incubation time among samples. The sawdust substances provided higher yield with moderate incubation time. Rice husk and rice straw substances provided the shorter incubation time but gave lower yield comparing with sawdust substances. However, rice husk and rice straw when combined with coffee pulp promoted the spawn growth and improve yield. At 25% rice husk with coffee pulp gain percent close to sawdust substance. The cultivation of Indian-oyster mushroom on coffee pulp substance was possible but required further studying to improve percent yield and incubation time.