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RAPORN PONGPANITANON : A COMPARATIVE STUDY OF DRIED SQUID PRODUCTION USING LOCAL TECHNOLOGY VERSUS APPLIED TECHNOLOGY CASE STUDY : AMPHOE MUANG, RAYONG PROVINCE. THESIS ADVISOR : SOMPONG THONGCHAI, M.Sc., VISITH CHAVASIT, Ph.D., ADISAK WANNAWAL, M.Sc., WITON DUANGKEO, M.Sc., 125 p. ISBN 974-589-328-5

Presently, local producers rarely use research data in order to select the appropriate technology for dried squid production. The objective of this study was to analyze comparative technology for dried squid production. The study of dried squid production included of local technology (sun dry), applied technology (hot air oven) and combined technology (sun dry and hot air oven). The 22 local skinless dried squid producers from Amphoe Muang Rayong were studied and data were collected. The considerations of this study were effectiveness, performance, efficiency of production, quality of product and cost of production.

As a result, the local, applied and combined technology could produce about 834,989 kg/yr., 1,009,734 kg/yr. and 814,758 kg/yr. skinless dried squid respectively. The respective drying areas were 91,600 m², 91,600 m² and 183,199 m². The working time of drying technologies were 274 days/yr., 365 days/yr. and 274 days/yr. The durations of drying process were 7, 4 and 5 hours. The percentages of area efficiency were 1.60%, 1.12% and 1.60%. The percentages of financial efficiency were 133.43%, 81.38% and 80.38%. The costs of production were 7.59 baht/kg, 8.36 baht/kg and 7.78 baht/kg respectively. For product quality, or the moisture content and amount of micro-organisms, local technology did not pass the standard level. In the analysis of product quality, applied technology did not pass the standard level of moisture content but did pass on the amount of micro-organisms. Similarly, combined technology did not pass on moisture content but did pass on the amount of micro-organisms.

From the result of this study, the applied technology could be an approach for local industrial development for dried squid production. Cost of the applied technology was higher than cost of the local technology. Therefore, further study should be concerned with increasing efficiency of production and reducing cost.