

ABSTRACT

The objective of the productivity improvement on sunlight drying banana project is to design and build up a small sample sunlight drying banana factory which compose of daughter and mother drying ovens and the most important is to improve the sunlight drying banana production process by GMP system (Good Manufacturing Practice). This project is a knowledge source for local people and anyone who is interested in and also can be developed to local community in the future.

From the study, the mother drying oven which is 17 cubic meter can dry 94 kilograms of ripe banana in 3 and a half days in case of good sunlight. It produced 39 kilogram of sunlight drying banana (Approximately 40% of weight before drying) and the moisture content in drying banana is 21.50 %. This is different from the local drying method which use 6-7 days to complete.

The daughter drying oven which is 0.48 cubic meter can dry 13 kilograms of it produced ripe banana in 5 days in case of good sunlight. It produced 5.61 kilo Gram of sunlight drying banana (Approximately 40 % of weight before drying) and the moisture content in drying banana is 22.0 %. This is different form the local drying method which use 6-7 days to complete.

The improvement of drying banana production process by GMP system caused the product more hygienic. The product was analyzed by Health Science Center Region 9 Phitsanulok found that number of effective organism is lower than the standard of TIS 586-2528. And also by sensory test, this product can be accepted by consumer and producer in case of color, odor, teste and over all appearance.

Finally, This project can improve productivity because The sample farmer found that the sunlight drying banana which was produced by this sample factory had scarcely lost of defective. And also it can be sold two time of the local price 15 baht to 30 baht per kilogram. In the future, The productivity improvement on sunlight drying banana project will be a source to contribute how to produce sunlight drying banana more hygienic and organize seminar every month.