

Application Of Dryer Machines In The Development Of Karo Traditional Herb Business In Tambar Malem Group In Batu Jong Jong Village, Langkat, North Sumatra

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Abstracts

The partner of the service activity is the Tambar Malem Group which is engaged in the business of Karo traditional herbs for traditional medicinal ingredients. The Tambar Malem group which consists of housewives to date still producing traditional Karo ingredients. Mitra is located in Bahorok District, Langkat Regency, North Sumatra Province. Partner problems in the field of production. In production still use simple tools and manuals so the amount of production is still small. The implementation method uses education and counseling, focus group discussions, accompaniment, evaluation. Solutions to partner priority problems from (1) Aspect production including Focus Group Discussion (2) procurement and use of equipment (3) preparation of materials; (3) Implementation of training (4) Evaluation. The results of the service activities Increasing knowledge and management skills of business development and implementation of drying machine technology.

Keywords: Tambar Malem, Traditional Herb, Karo, Production, oven, Productivity

I. INTRODUCTION

Park National Mountain Leuser recorded have 4000 type plant, Public in around area many know type- type which could utilized for drug. Knowledge they obtained by down hereditary, Public local already consider the forest as a friend so that they by together attempted guard sustainability. The entry of investors from outside the region introduce plant plantation so that it also affects the lifestyle moment around area forest in region Langkat is dominated by the Karo and tribes Malay. Public very good famous for herbs Traditionally, one of them is oil Kem-Kem as massage oil and medicine wound [1]. One of the locations that moment this currently developed to direction ecotourism is Batu Frog, Batu Village Jong-Jong Subdistrict bahorok, besides tour Public also interested for develop plant drug. Residents of Batu Katak Hamlet, Batu Jong Jong Village, Bahorok District, Langkat Regency, the majority of the Karo Tribe, Karo local customs and wisdom are still maintained, one of which is the manufacture of traditional Karo ingredients that have been passed down from generation to generation [2]. The tradition of making this herb has become one of its own tourist attractions, which in the period before the *COVID-19 pandemic* was often visited by foreign tourists.

The Tambar Malem group, which consists of housewives, is still producing traditional Karo ingredients. The ingredients produced by the Tambar Malem Group are spray, param, herbs, and oil. Making traditional ingredients using ingredients from plants found around the village. Cultivating medicinal plants and producing them to be suitable for sale is still relatively simple. The herb plants cultivated are turmeric, galangal, kencur, bangle, key meeting, lemongrass, leaves of wakes and other types. The materials are collected from the garden or purchased, then washed and then processed manually using simple tools such as machetes, knives and cuttings. Rhizomes and leaves that are nutritious are chopped on a cutting board with a machete. After the ingredients are felt, the desired texture is obtained, all of the ingredients are mixed together so that the ingredients are evenly mixed. After this process, drying is carried out which still relies on solar energy to dry the material. This method is one of the spray-making processes. Growing Ecotourism Stone Frog is wrong one opportunity to open communication networks and network marketing with party outside [3]. Traveler archipelago and traveler foreign countries have begun to be interested in drugs

traditional medicine [4]. It can work side by side because Ecotourism Stone relying on natural panoramas and traditions which unique. Constraints faced in the production process, one of which is the drying process, is that the sun's heat is not optimal due to weather factors such as cloudy clouds; while the drying process is only done by placing the herb pieces on the floor without using tools, so it takes a long time and is less efficient. The problem will increase if it rains, the dry ingredients of the ingredients will become wet again. The purpose of community service activities is to increase the independence and welfare of the community [5].

II. METHODS

Election the place devotion to Public based on closure of Ecotourism throughout Langkat district in mid-March 2020 because the *COVID-19 pandemic* has a direct impact on income Batu Frog Hamlet community. Currently, the obstacles faced are related to production Karo traditional ingredients which still uses simple tools in its production process, especially in drying .

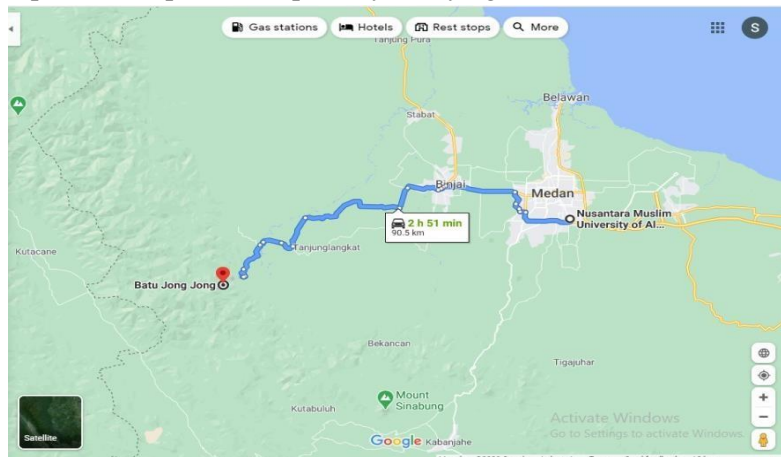


Fig 2.1. Map Location Devotion On Public

a. Stage Preparation

Stage Preparation, which conducted for prepare various Thing before To do activity which cover weave communication with partner, do study preliminary (Field Survey), identifying each problems with partners and make a solution plan problem (*Problem Solving*) The preparation stage is to coordinate with the place devotion Public in skeleton preparation training, setup modern production equipment and sealing machine packaging.

b. Stage implementation

This activity begins with a notification to partners and continues with this PKM Activity Training consists of: starting with a system survey The drying of Karo traditional ingredients was followed by education and counseling on the implementation of the dryer.

c. Evaluation

Malem Tambar Group Structure Katua Group k Night together member group attend the activity. Settings the place already in accordance with plan which made and equipment which conducted for counseling already available and already used as should be. Use language which used communicative in delivery use language Indonesia, understand Theory which already be delivered team devotion Public and could facilitate hearings during walking trainer and discussion.

c. Process

In accordance with the planned schedule The implementation process of activities started June 2022. Process activity Devotion To Public which consist election ingredient drying machine in the form of a gas oven until practice .

III. RESULTS AND DISCUSSION

A common problem faced by the Tambar Malem group in Batu Katak Hamlet, Batu Jong Jong Village, Bahorok District, Langkat Regency is that the drying process is still carried out in a simple way,

only placed on the floor without using tools so that it takes a long time and is less efficient [6] . Drying is not optimal will result in the texture of the product is not optimal. The solution offered is the application of appropriate technology in the form of a drying machine in the form of a gas oven as shown in Figure 3. In the current production aspect, the weakness is the lack of equipment for processing materials into products as in The solution to production problems is the procurement of equipment in the form of dryers. (*oven*), chopper (*blender*), for processing herb ingredients so as to produce better quality products, both in terms of hygiene and appearance of ingredients. Processing of medicinal plants is very important because good processing will produce healthy food. If the processing technology is not correct then the results will be toxic to humans. Medicinal plant processing technology consists of several stages, namely sorting, washing, draining or drying, storage and processing. Sorting was carried out after harvest on medicinal plant commodities [7] . Medicinal plants taken from leaves, rhizomes or tubers are cleaned of dirt. Plant parts that have been harvested and then separated from the rotten parts, soil, sand and adhering weeds must be cleaned. There are several plants that are produced through tubers such as ginger, turmeric, kencur. Apart from product quality, it is expected that the quantity of production can also be increased.



Fig 1. Community Service Implementation Team with Tambar Malem Group Partners



Fig 2. Delivery of tools to support the Karo Traditional Herb Production process



Fig 3. 3 Rack 1 Door Electric Type Oven Machine with Gas Fuel To Dry Herb Ingredients In The Form Of Simplicia, So It's Faster And Evenly

IV. CONCLUSION

Cultivation plant drug with types local still need observation which intensive so that besides benefit from side health could also dug benefit by economical especially as source income alternatives. Group Tamber night expected can be one of the drivers of business based gender in Regency Langkat, North Sumatra. Mothers who are members of the Night Tamber Group which known very toughness in farming, withreceptacle Group farmer like this of course will more develop.

With the dryer, the drying process can be done more quickly and efficiently. With the implementation of clean production, good waste management, and effective and efficient production processes, partners are expected to be able to do business with production management and increase productivity.

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