

## Sa-biang O-sod : Ceramics tools and manual for Thai Medical.



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### Abstract

The medical is very important for help human life. Many countries have their own wisdom of medical before we use conventional medicine. Human have to develop the medical knowledge from diagnosis and herb treatment. They have different knowledge to heal patients. In Thailand we have traditional medicine, heal by local herb and change patients behavior. At the present we have conventional medicine but we also have many chronic diseases such as cancer, immune disease or hematological. Many Thai patients feel they don't responding with conventional medicine or have allergic. That make Thai Traditional Medical has been restored again. Most of Thai Medicine is herbal decoction. Usually they use a cooking pot to brew it. In the past we have only one design of terracotta pot. The problem is in the present we have various design and material of cooking pot, some make a toxic with herbal and hard to measuring.

Sa-Biang O-sod : Ceramics Tools and Manual include pot, steamer, container measuring cup and manual. The clay body is cordierite. The type of glaze is semi-matt. Firing at 1250°C in an oxidizing atmosphere.

The results of this research and design revealed this tools can make herbal brew and herbal steam for support patients to make them medicine at home after they take dry herbal medicines from hospital or drugstore.

### Keywords

- Thai Medical tools
- Ceramics

- Manual











### Background

- Studies of Thai Traditional Medicine and urban lifestyle.
- Studies user experience to make special product and design a manual for user.
- Develop fireproof clay and non-toxic glaze

### Problem Statement/ Statement Significance

At the present Thai Traditional Medical don't have standard tools. This research design standard dispensing, non-toxic material and friendly use product for urban person.

Table 1 Compare herbal brew and steam pot in the past and present.

Method	Past	Present
Herbal Brew	 	   
Herbal Steam		  

### Statement of Design

1. Study Thai herbal brew and steam method form doctors and pharmacists from Chao Phraya Abhaibhubate Hospital.
2. Design ceramics tools for Thai Medical to support herbal brew and steam method.
3. The experimental of fireproof clay formula and non-toxic semi-matt glaze.
4. Design manual for special product.

### Objective / Aim

Design Standard tools for Thai Traditional Medical and Design manual for this special product.

## Methodology

### 1. Tools and Methods

- 1.1 Research Thai Medical Methods from doctors and pharmacists interviewed.
- 1.2 Other research of Thai Medical Methods from books and secondary data.
- 1.3 Research manual design form samples behavior and typography design theory.
- 1.4 Clay and glaze formula form ceramics experimental methods.

### 2. Samples

Thai people, Age over 25 years old.

**2.1 Physical** Thai people in this range began his career seriously, Since the early termination of the Bachelor's degree level of education as a standard to work steady. Then aged 25 and over will have a steady job, respectively and a competitive career to secure for themselves and their families. Although most of drug users are elderly but tools users are adult who have to take cares the patient.

**2.2 Social features and habitats** This age is the pursuit of success and progress. They living in the city, mostly because the city was the hub of the economy make a wide variety of job. The device is typically stable in the city, making people find these habitats have convenient transportation. The density of population in the city, resulting habitats have a smaller size and limit of owner to have ability to care them residents.

**2.3 Personality** Although personality is specific to each individual. But working people have a common point of the personalities. They have to create a credible commitment to a stable and successful pursuit. They need comfort area after dedicated time to work.

### 3. Scoping design

The research information is brought to the set point in designing tools for Thai Medical in accordance with the behavior of the target group.

- 3.1 Use less pace portable consistent with the small space of living.
- 3.2 Easy to manage in one set of product.
- 3.3 Can communicate information using valid and accurately.

### 4. Design

The first Sketch is present about stack system and geometric outline to represent portable tools in urban life concept.



Picture 1 Overall sketch

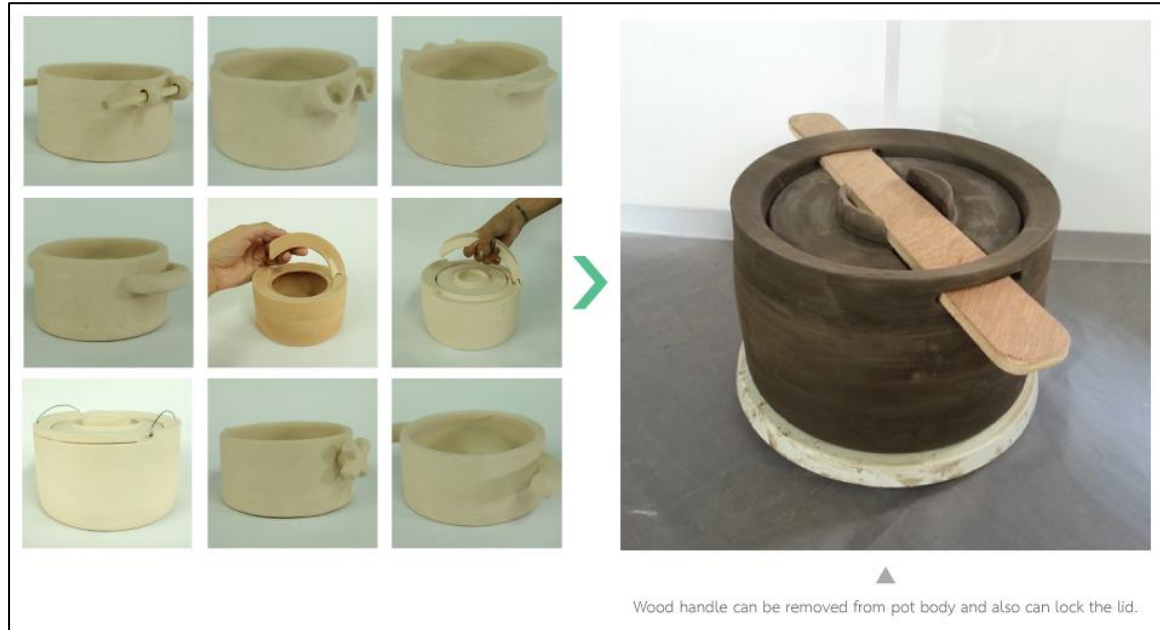
Phase two of sketch is solving water pouring problem of the pot. Researcher has try to searching for form of pouring point without a part excess extended form pot outline.





Picture 2 Pouring point experimental

Phase three of sketch is solving handle design. Researchers have solved the problem about strong handle that can hide or can remove from pot body to keep straight outline of product.



Picture 3 Handle experimental

The final design has one set of product prototype include pot, steamer, dry herbal container and measuring cup.



Picture 4 Final Design

In the part of communication designs have scoping in signage on product, corporate identity and manual. Because of this product design for three type of Thai herbal brew signage on tools in this set will help user to separate type of medicine they brewing. The corporate identity will help product personality is stronger and control manual style to build a unity to brand.



Picture 4 Signage on product

The logo has developed from Thai name of Sa-biang O-sod in Thai alphabet with star symbol, the symbol of Thai Medical. Color of brand is light green and white. Light green represent herbal, plant, nature and it is color of medical. White meaning are clean and health care.



Picture 5 Sa-biang O-sod logo

Sa-biang O-sod manual book can help users know how to use the special product. Manual has design in clean and simple grid with image, illustration and short explanation.



Picture 5 Part of Sa-biang O-sod manual book

## Conclusion and Significance

### 1. The usage of Ceramics tools.

This Tools can be used for the purposes specified. Pot can brew medicine, Steamer can be used with compress. Dry herbal can contain with appropriate storage. Measuring cup can be used for measuring and used for drinking.

Problems encountered in the use are weight of the pot is too much and pouring point is not stabilized use well. Pot also has absorbed the water is slightly that make a pot takes a long time to boil. Filter holes that are too big. And glass also weighs too much.

Problem in manufacturing most are in the process of forming. Clay body difficult to spread the mold, that make many marks on product skin. They need to repair skin mark before biscuit firing. As a result, product can be blamed on ignition or broken during firing or cracking while in use. Suggestion is try to change to solid casting that can define the thickness of the product and suitable for cordierite clay body.



## 2. Visual communication

Visual communication design can communicate with users as well as the signage on tools. And instruction manuals can help users understand special product.

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