

Thesis Title: Kitchen Prototype for Low Income Desidentail the Case study of
Baan Ear ah-torn Project,Rangsitklong Sam

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ABSTRACT

The study of Kitchen Prototype for Low Income Desidentail the Case study of Baan Ear ah-torn Project,Rangsitklong Sam Uea Arthon Housing Project is for the purpose to find out the styles of kitchen extension that are suitable to serve the user activities and their behaviors and then summarized the findings to provide guidelines for kitchen designs in small houses of limited area or for houses of similar characteristic.

The research began at studying the theoretical concepts relevant to the standard using area in the houses of less income earners along with Housing Control Law regarding possibility of kitchen extension, such research also goes in line with the observations on Thai ways of using heavy kitchen equipment and then compare it against western influences that effected the fixing of kitchen appliances to suit the user behaviors.Questionnaires, structure interview and survey forms were being used with 477 households. Questionnaires were distributed to the maximum and researcher was able to collect responses from 50 households. Results found that most of the sample groups (96 percent) have extended their kitchen area that can be summarized in 3 styles as follows: extension with rear area surrounded with permanent brick walls coated with cement, extension with open rear area, extension with closed rear area and open

side. Majority found (61.2 percent) extension with rear area surrounded with walls. Therefore, the user activities and behaviors in using the kitchen and the style of arranging the kitchen appliances are different such as:

Extension with surrounded walls (brick walls coated with cement) at the rear found utilized area between 4.5 – 16.6 square meters. Most furniture is permanently fixed. The food preparation and wash areas are build-in counters, the former kitchen area (in front of bathroom) is used to place shelves or pantry set (rice cooker, kettle, water filter) or food cabinet etc. Main equipment comprising gas stove with 1 or 2 heads (same proportion), single sink, shelves and food cabinet.

Extension with open rear area comprising a useful area between 3.8-17.9 square meters in semi-permanent style, with unfixed furniture. Main kitchen equipment are gas stove, dishwashing basin (sit and wash or sink in same proportion). Shelves in the former kitchen area (in front of bathroom) used to place shelves or pantry set (rice cooker, kettle and water filter) or food cabinet. Utilized area is similar to those of the permanently closed rear area.

Extension with closed rear area and open side comprising a utilized area between 6.6-14.4 sq. meter. The closed rear area is for non-heavy cooking equipment such as food cabinet and pantry set (rice cooker, water filter and kettle) or refrigerator or used as residing area, etc. The open side area is used for heavy cooking activities with main unfixed equipment such as gas stove, sink and ready-made shelves. The former kitchen area (in front of bathroom) used as extended bathroom or placed shelves or leave vacant as walkway. Most refrigerators are put under the staircase near all-purpose room. Conclusion as designer's guidelines for the extension with rear area surrounded with brick walls, this gives the advantage of permanence and good order to keep cooking equipment in separate sections or able to construct built-in counters of I or L shape. The lower part should be left vacant for convenience of keeping tools and equipment. Built-in shelves to keep equipment are necessary due to Thai style cooking needs various kinds of tools and equipment. However, since the regulations restricted the extension design, therefore, air ventilation space can be drilled solely at the side to allow maximum air flow, either as an open space or as a window that can be open and shut. Materials used should be strong and easy to clean, etc.