

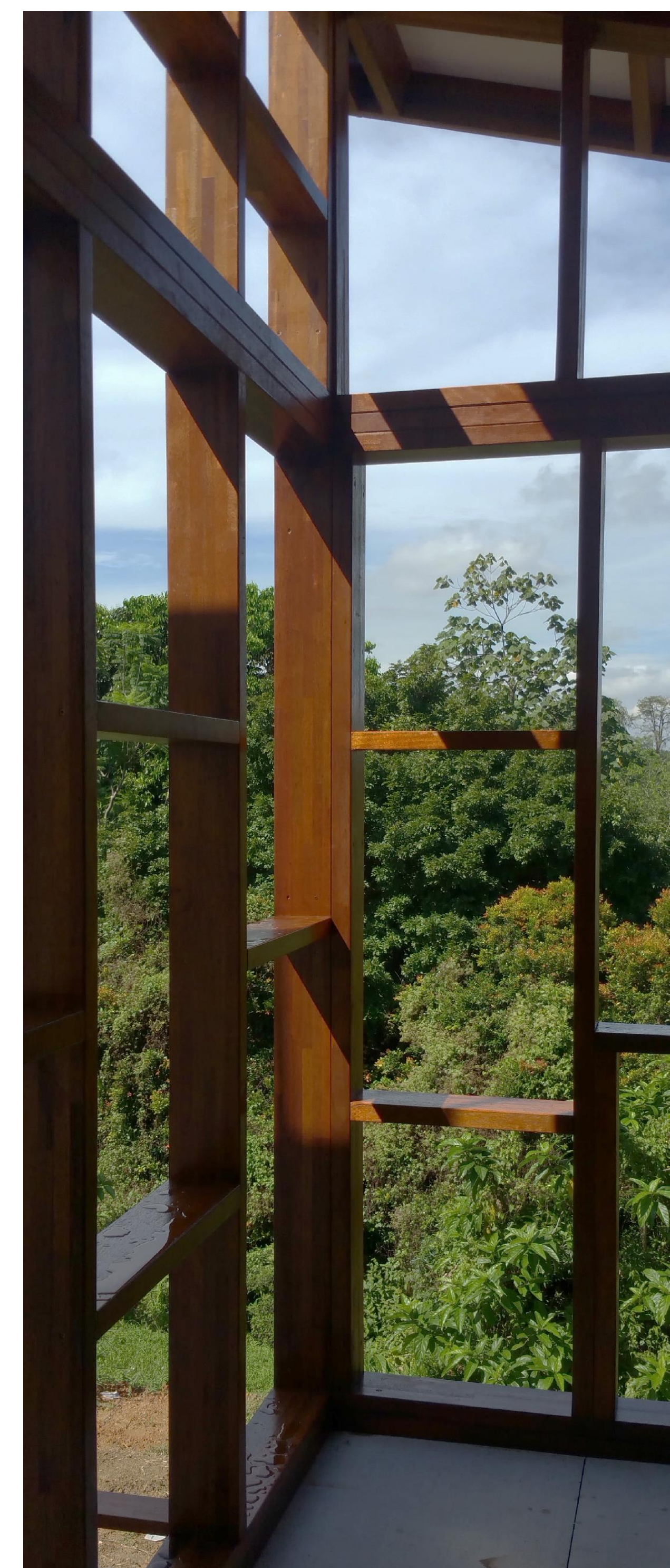


# SABSystem Timber Framing System

*A green IBS structural system using architectonic objects to achieve flexible form*



STAFF QUARTERS' PROTOTYPE, UPM



SABSystem is a flexible form formulation system based on the Modular Design Rules. Instead of assembling construction elements to form a building, the SABSystem allows builders to assemble architectonic forms made up of designed multi-elements to form the volumetric form of a building. The modular architectonic forms are conformed to MS 1064 which classifies that the SABSystem's construction technique as an IBS system.

## MARKET POTENTIAL

- Tourism
- Remote housing settlement
- Shelter homes

## ADVANTAGES

- Loadbearing < 4 stories without columns
- Renewable TROPICAL building resources
- Easy transportation & fast assembly

## Full-scaled Testing @ CREAM

TF PANEL TYPE	TESTING STANDARD	RESULTS
MODULAR FLOOR (1200mm (W) x 120mm (H) x 4000mm (L))	BS 5286	PASSED
WALL PANEL (1200mm (L) x 3000mm (H) x 120mm (W))	BS 5286	PASSED
MODULAR PURLIN (1200mm (W) x 120mm (H) x 4000mm (L))	MS 544: Pt. 7	PASSED

## PATENTS

Malaysia MY-158546-A  
Japan P5775875  
China ZL200980161702.5  
Korea 10-1648774

## AWARDS

Best@Show New Innovation  
(GreenBuild Asia 2012)  
Silver Medal (MTE2011)



**Project Leader :**

Faculty :

Email :

Tel :

Expertise :

**PROF. DR. RAHINAH IBRAHIM**

Faculty of Design and Architecture

rahinah@upm.edu.my

03-97694038/ 019-2208468

Sustainable Design Informatics, Timber IBS,  
Sustainable Product Development

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