

# Agr RIC

International Agro Revolution & Innovation Challenge

17th October 2021

## CERTIFICATE OF AWARD

THIS CERTIFICATE IS AWARDED TO

**Kuwara Kuji, Hafis Datumada & Thanaset  
Thongsaiklaing**

FOR THE INVENTION

**The Super Premium Grade Product of Stingless Bee  
Honey**

Organizer:



Co-organizer:



**Prof. Dr. Razli Bin Che Razak**

Exercising the Function of  
Vice-chancellor

(Research & Innovation)  
Universiti Malaysia Kelantan

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ORGANIZED BY:

Khon Kaen University

CO-ORGANIZED BY:



### The super premium grade product of stingless bee honey

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## INTRODUCTION/ABSTRACT

Stingless bee honey is a unique product that compose of abundant of bioactive compounds such as flavonoid, phenolic, terpene and antioxidant molecules. Several research reveal to confirm pharmaceutical properties of them for the example antioxidant, anti-inflammatory, anti-bacterial, antiviral, anti-ulcer activities; and antihyperlipidemic, antidiabetic and anticancer etc. In the present, we use scientific methods for development the high quality product "super premium grade" of stingless bee honey.

## PROBLEM STATEMENT

Stingless bee or kelulut is a one of four corbiculae bees family and found in the tropical and subtropical regions of the planet. Most famers are used stingless bee in order to pollinate in the plant field. Not only used to pollinator, stingless bee can be produces cerumen, honey and ferment pollen, that compose of abundant of bioactive compounds such as flavonoid, phenolic, terpene and antioxidant molecules. Several research reveal to confirm pharmaceutical properties of them for the example antioxidant, anti-inflammatory, anti-bacterial, antiviral, anti-ulcer activities; and antihyperlipidemic, antidiabetic and anticancer. In Narathiwat province, most famers produce stingless bee honey for sale but quality is low and make it to low price. Therefore, we use scientific methods for development the high-quality product "super-premium grade" of stingless bee honey.

## NOVELTY/INVENTIVENESS

- **High quality and clean product**
  - control by scientific processes
- **Beauty and anti-aging**
  - Scavenging free radicle because of anti-oxidant activities
  - Anti-obesity that product
  - Reduce wrinkled
- **Environment and community support**
  - Environmentally friendly
  - Produce from local community
- **Healthy**
  - Promote immune system
  - Anti-microorganisms

## COMMERCIALISATION

(IF ANY)

- PNU community farm outlet

This outlet as a main platform to commercialize our products towards customers.

## PROJECT DESCRIPTION

(PICTURES/DATA/RESULT/DISCUSSION)



- The color of stingless bee honey is a brawn and clear
- No have a dirty contaminated within honey
- The sweetness percent of honey more than ninety brix