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STINGLESS BEE HONEY AS A *HALALAN TOYYIBAN* SUPERFOOD: THE BEEKEEPERS CHALLENGES

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STINGLESS BEE HONEY: A HALALAN TOYYIBAN SUPERFOOD

Quranic Verse (Translation from Sahih International)

An Nahl, 16 : 68

And your Lord inspired to the bee, "Take for yourself among the mountains, houses, and among the trees and [in] that which they construct.

An Nahl, 16 : 69

Then eat from all the fruits and follow the ways of your Lord laid down [for you]."
There emerges from their bellies a drink, varying in colors, in which there is healing for people. Indeed in that is a sign for a people who give thought.

Prophetic Sunnah

(www.iium.edu.my/deed/hadith/bukhari/071_sbt.html)

Abu al-Ahwas reported: Abdullah ibn Mas'ud, may Allah be pleased with him, said, "You must make use of two healers: the Quran and honey."

Source: Shu'ab al-Imān 2345

Grade: **Sahih** (authentic) according to Al-Bayhaqi

Narrated by 'Aisha, may Allah be pleased with her: The Prophet (**sallallahu 'alayhi wa sallam**) used to like sweet edible things and honey.

Source: Sahih Bukhari 586

Contain up to 85%
trehalulose (Fletcher et
al, 2020)

Higher polyphenol
content compared to
other species of honeybee
(Isla et al, 2013)

Scientific
findings

Strong non-peroxide
activity (Temaru et al,
2007)

Reduce body weight,
BMI, adiposity index and
relative organ weight
(Mohd Rafie et al, 2018)



OBJECTIVE

1. To identify the challenges faced by urban beekeepers in supplying a high quality stingless bee honey for a *halalan toyyiban* superfood at national and international market.



FIGURE 1: CRITERIA FOR INSTALLATION OF STINGLESS BEE LOGS



Sufficient forage area around 5km radius

Distance between logs not less than 10 feet



The funnel is not facing each other

Sheltered location



FIGURE 2: TECHNIQUE SETTING UP THE STINGLESS BEE LOG



FIGURE 3: HARVESTING TREND IN DURATION OF 14 MONTHS



FIGURE 4: HARVESTING FROM JAN 2020 –FEB 2021

LOG NO	1, 6, 11	2, 4, 5, 8, 9,12	3	7	10
SPECIES	Thoracica	Itama	Apicalis	Doipaensis	Binghami
LOG DEATH	11	5			10
TOTAL HARVEST	5390	6830	5450	495	0
FLOWERING SEASON	March, April, August, September	March, April, August, September	March, April, August, September		

BEEKEEPERS CHALLENGES

Fermentation

Deteriorate
quality

Bubbly and
sourly

Adulterated
honey

Consumer
mistrust

Premium
price RM200
per kilogram

Death of Log

Predators
attack

Weak colony



CONCLUSION

- Malaysia as a tropical country could tap on this golden opportunity to utilize the potential of becoming major producer exporter for honey
- It could begin with small-scale beekeepers by providing them necessary expertise and technology to maximize their production and maintain premium quality of the honey

