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Malaysia's Rice Fiasco May Loom into A Crisis

POLICY AND RESEARCH DIVISION INSTITUT MASA DEPAN MALAYSIA 22 SEPTEMBER 2023



<u>Theme:</u> Malaysia's Rice Inflation

Introduction

Malaysia is currently facing a looming rice crisis, particularly with **a shortage of rice supply including local white rice and increase in the price of imported rice**, forcing consumers into panic. According to Amir Mat Amin, the Deputy Director of Farmers' Organisation Authority (LPP), the paddy yield per harvest usually reaches an average of 7 metric tonnes per hectare, but this dipped to only 4 tonnes during the last harvest season¹.

According to Datuk Wira Haji Dr. Ameer Ali Mydin², Managing Director of Mydin Mohamed Holdings Bhd, the largest halal wholesaler and retailer chain in Malaysia, whilst the **percentage of local rice production is commonly known to be 70%, whereas in reality, it is only around 62%**.

Of this amount, **approximately 43% goes into the end market to be sold as local white rice (BPT) to consumers** (after taking into account usage by industry, rice seeds etc.). Hence, **imported rice needs to cover the remaining 57% to achieve domestic rice demands**. This problem is further **exacerbated by India's rice export ban**³ which caused the price of Basmatii rice to rise from RM32 to RM40 per 5kg.

Thus, this urgent issue requires immediate attention from the government. Looking at the current conditions of the market and data, it is clear that the rice crisis stems from our low self-sufficiency level (SSL) caused by a high dependency on imported rice as well as the lack of capacity in local rice production.

In light of the various factors that can be attributed to this crisis, it is therefore crucial to identify the root cause and deal with it effectively, with proper management and good governance in order to reduce local rice shortages and subsequent price increases.

¹ Floods, crop diseases to blame for local white rice shortage

² Meeting with Datuk Wira Haji Dr. Ameer Ali Mydin, Managing Director of Mydin Mohamed Holdings Bhd. dated 21 September 2023

³ India bans non-basmati rice exports to check local prices



| Low Self-Sufficienc | y Level (SSL) |
|---------------------|---|
| Elaboration | Self-Sufficiency Level (SSL) refers to the extent in which a country's supply of agricultural commodities to meet domestic demands. An SSL that reaches 100% or more indicates production is sufficient to meet domestic needs and no longer depends on imports from foreign countries. |
| | Issues: |
| | 1) High Dependency on Imports |
| | With a population of 33.4 million people, Malaysia consumes about 2.7 million tonnes of rice a year⁴ with rice import of up to 900,000 metric tonnes, which is approximately 30% of the country's rice needs (DOA, 2018). |
| | Based on latest Supply and Utilisation Accounts (SUA) of Selected Agricultural Commodities 2018-2022 by the Department of Statistics Malaysia (DOSM), the Malaysian Self-Sufficiency Level (SSL) for rice has fallen to 62.9% in 2022⁵ from 71.6% in 2014⁶. |
| | Rice production has also decreased to 1,575 thousand tonnes in 2022 as compared to 1,686 thousand tonnes in 2021. In comparison, rice imports increased by 51 thousand tonnes to 1,113 thousand tonnes in the same period⁷. |
| | - This indicates Malaysia's high dependency |

⁴ Malaysia's move to break rice import monopoly could backfire on farmers' welfare: Analysts

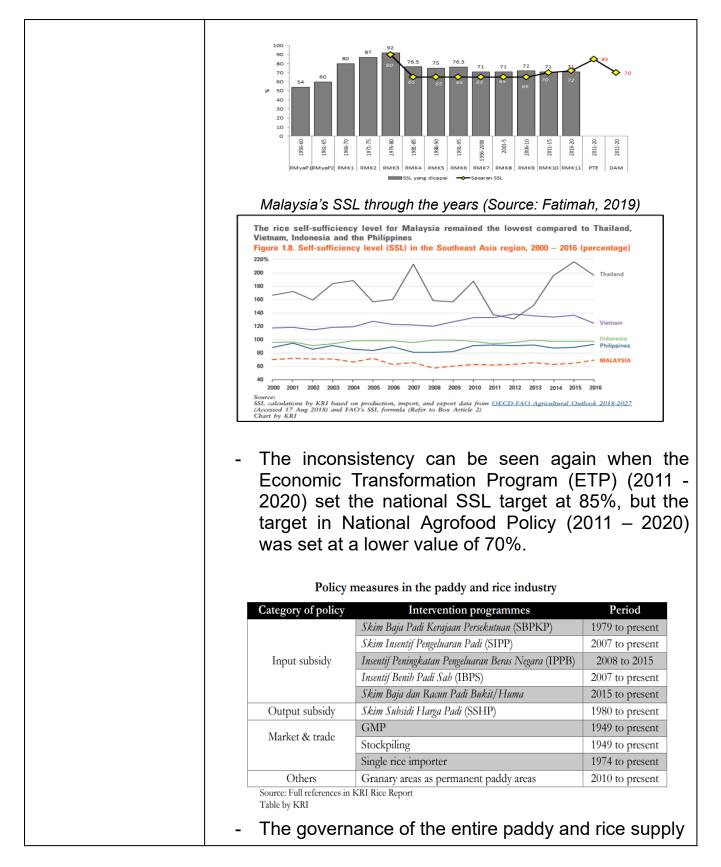
 ⁵ Supply and Utilization Accounts Selected Agricultural Commodities, Malaysia 2018-2022
 ⁶ Supply and Utilization Accounts Selected Agricultural Commodities, Malaysia 2010-2014

⁷ Supply and Utilization Accounts Selected Agricultural Commodities, Malaysia 2018-2022



| Rakyat over and above Exhibit 8: Production, Import, and Per Capita Cor | e the local | l producti | |
|---|---|--|--|
| | 2020 | 2021 | 2022 |
| Paddy production* ('000 tonnes) | 2,356 | 2,442 | 2,282 |
| Rice | | | |
| Production ('000 tonnes) | 1,624 | 1,686 | 1,575 |
| mport ('000 tonnes) | 1,110 | 1,062 | 1,113 |
| Per capita consumption (kg/year) | 79.7 | 79.5 | 77.0 |
| lote: * Wetland paddy and dryland paddy | Source | e: Ministry of Agricultur | re and Food Security |
| SSL is the inconsister A high level of SSL has the First Malaysia Plan level of 80%, this tar Second Malaysia Plan 92% in Third Malaysia However, from the Fo the SSL target had s range of 76.5% to 71.4 The Eleventh Malaysia the country's SSL t illustrate the invarian national SSL target achievements . | d initially n, RMK1 (get increa n, RMK2 Plan, RM urth to Ni since dec %. a Plan (20 arget at nt gover | been targ (1966 - 1 ased to 8 (1971 - K3 (1976 nth Mala clined be 016 - 202 only 72 nment p | geted sinc 970) at th 37% in th 1975) an 5 - 1980). ysia Plans etween th 20) had se 2%. Thes policies o |





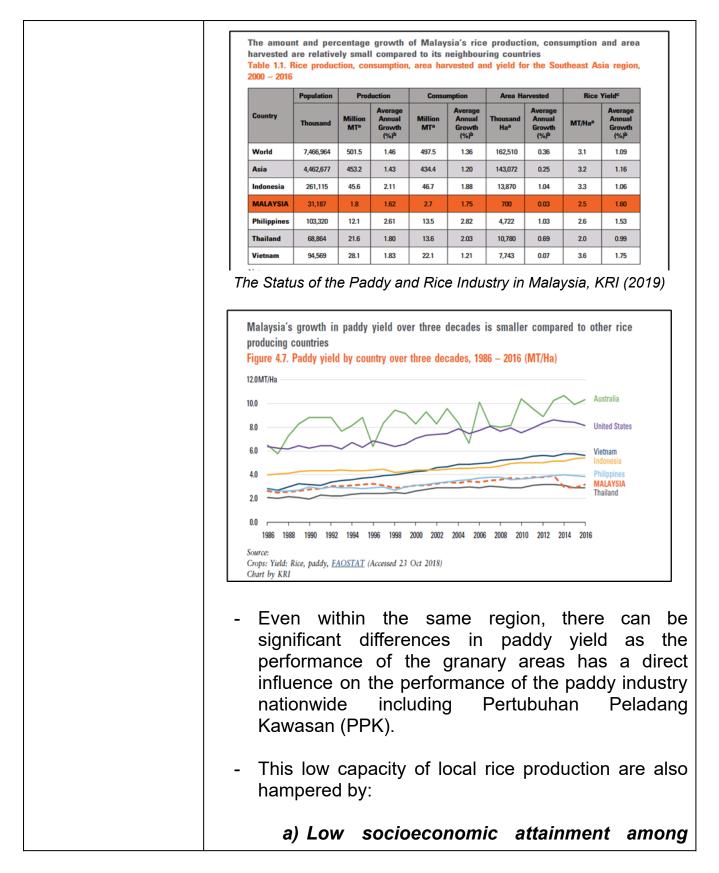


| chain involves various ministries and agencies although the main responsibility falls under the MOA. These regulators oversee the implementation of legislations and policies related to the industry such as the Control of Paddy and Rice Act 1994. |
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| - However, data consistency and transparency across different reports are pertinent issues which often resulted in delayed and inefficient market responses and research outcomes based on outdated data. |
| Whilst Malaysia's paddy and rice-related policies are production-centric or SSL-centric policy targets, it should incorporate other food security factors in the production of domestic rice. |
| 2) Lack of Capacity in Local Rice Production |
| Another aspect of Malaysia's low SSL stems from the lack of capacity in local rice production. |
| Malaysia is currently producing around 1.8 million metric tonnes of rice per year and imports up to 31% of rice to fulfil domestic needs, equivalent to 1,000,000 metric tonnes from Vietnam, Thailand, Pakistan and other countries (IRRI, 2019; DOSM, 2019). |



| Items / Year - SSL 2019 - SSL 69% 2019 - SSL 100% 2030 - SSL 100% | |
|--|---|
| (total population) (32.5 mil (32.5 mil (38.0 mil | |
| population) population) population) | |
| Rice cultivation area 684,416 991,907* 1,159,768** | |
| (ha) | |
| Paddy production (MT) 2,912,203 4,220,584* 4,934,836** | |
| Rice production (MT) 1,876,922 2,720,176* 3,180,513** | |
| *// we are 100% self-sufficient, calculated based on 2019 read data ** Average growth net over time of overage poly yield per based and 2019 read and 2015 - 2019 overage yield per hall and efficiency of rice recovery rate at 64%. Rice Cultivation Area and Paddy and Rice Production in 2019 and Requirements by 2030 to Achieve 100% SSL. World rice prices are volatile due to the elasticity in the factor of production of rice sudden growth of demand and the limited qu of world rice traded. In the case of Malaysia's further growth in capacity is further hindered b declining number of land cultivated for paddy. Paddy fields have rapidly been developed purposes other than agriculture. In 2018, staffrom the Ministry of Agriculture (MOA) indicated Malaysia has 7,857,434 hectares of agricular in total and only 408,162 hectares (rice pare involved in paddy cultivation areas (DOA, 2 DOA, 2018). In 2012 alone, the MOA confirmed that more 100,000 hectares of paddy fields and this poses a threat to local rice supply if the p cultivation area continues to be replaced. | e low e, the antity SSL, by the d for tistics d that lltural arcel) 2016; than inged it has trend |







| b) Monopoly in supplying paddy costs of productions. Market is dictated by price exploitation of agricultural inputs, monopsony in rice |
|---|
| purchasing and retailing. This is related to the single gatekeeper system by BERNAS and its subsidiary companies. |
| <i>c) Slow adaptation of technology.</i> Many farmers are enthusiastic about integrating technology into farming practices. The bureaucratic processes of organisations such as Muda Agricultural Development Authority (MADA) and Kemubu Agricultural Development Authority (KADA) have hindered timely adaptation. Mechanisation, technological integration and advancements in AI stand as indispensable trends for augmenting yields across various sectors, such as paddy cultivation, palm oil, vegetables, poultry or fish farming. |
| addressing these pertinent issues, the government |
| |



| Implementation of price floating mechanisms and raising it to the level of a free market determined by all industry players and supply chain. When the price of rice increases, the price of paddy cultivated by farmers also rises. This will help increase their incomes to a more reasonable level based on their productivity. It is also essential to benchmark against producer countries and their average or median production costs. |
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| 2. Enhance transparency and accessibility through digitalisation of paddy and rice data and information across the supply chain (e.g. Blockchain technology). This for instance allows farmers and midstream players to leverage on the resources to develop a shared-risk approach through contract farming. |
| 3. Intensify efforts to modernise farming through IR 4.0 and R&Ds such as Large-Scale Smart Paddy Field (SMART SBB) and deployment of drones for crop spraying. This in turn helps to identify the level of readiness for farmers to switch to new technology with continuous support of technology transfer and dissemination, including maintenance and trouble-shooting related to the technology. It also helps to strategically plan for future development training and reskilling of on-the-ground farmers and experts to support this industry. |

4. Reduce monopsony in rice purchasing and retailing by creating a transparent system that can be easily accessed by all farmers, e.g. adoption of Big Data to indicate the deduction rate. Further, it can also be done by reducing monopoly control within the industry.

<u>Medium term</u>

- Enabling regulatory and policy environment for breeding and seed production is needed to encourage the entry of new players as opposed to reliance on a single R&D entity to drive paddy breeding in Malaysia.
- This can help facilitate the growth of the private sector breeders for development of new paddy varieties.
- Compared to other rice producing countries, Malaysia has been relatively slow in its release of new varieties. India has been the most prolific variety producer with over 1,900 varieties released, followed by South Korea with 277 varieties and other ASEAN countries such as the Philippines, Indonesia, Vietnam, Thailand and Myanmar.
- In comparison, Malaysia has released 49 varieties according to MARDI in 2018.
- 2. Reduce monopoly in the provision of cost of production by introducing more suppliers and choices towards a more sustainable and eco-friendly cost of production.
- There is also a need to reduce dependency on certain companies that provide seedlings, fertiliser and pest controls by introducing better



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| | and cheaper options to farmers, such as incentives for farmers who produce their own seeds. |
| - | . Strengthen rice management by restructuring the Paddy Industry Development Division (IPB) under the Ministry of Agriculture and Food Industries (MAFI). This allows IPB to focus solely on the planning, monitoring and implementation of programmes which aim to increase the welfare of paddy farmers, quality of services and subsidised items to farmers. |
| | g term . To promote a platform that encourages free, fair and transparent trade as well as healthy competition, by reexamining the monopolistic power of BERNAS or replacing it with a new framework/institution akin to the-then <i>Lembaga</i> <i>Padi Negara</i> (LPN) as a GLC. With improved opportunities through free, fair and transparent trade and healthy competition, local paddy farmers will be able to improve their socio-economic attainment. |
| - | . To curtail rice cartel and monopolistic activities through State-Zakat Board initiatives such as the SMART Large-Scale Asnaf Rice Field Program. In this regard, the Kedah State Government through its Zakat Board (LZNK) took initiative to purchase idle lands and redistribute them to selected recipients among the needy <i>(Asnaf)</i> to venture into |



| paddy farming with cash aid and other such as rice seeds. The LZNK only rec initial investment capital, while the profit sales are handed over 100% to the needy | covers the s and rice |
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