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UNDERSTANDING HALAL SUPPLY CHAINS: ENSURING INTEGRITY IN THE GLOBAL HALAL FOOD MARKET

Musdiana Mohamad Salleh

Faculty of Business and Management, Universiti Teknologi MARA Cawangan Kedah
diana001@uitm.edu.my

Etty Harniza Harun

Faculty of Business and Management, Universiti Teknologi MARA Cawangan Kedah
etty@uitm.edu.my

INTRODUCTION

Halal, an Arabic term meaning "permissible" or "lawful," refers to products and practices permissible according to Islamic law. The global halal food market has grown significantly in recent years, driven by an increasing Muslim population and rising consumer awareness of Islamic dietary rules (Haleem et al., 2020). As a result, ensuring the integrity of halal products throughout the supply chain has become crucial as Muslim consumers are increasingly concerned about the authenticity of halal-certified products. This paper explores the critical role of halal supply chains in maintaining integrity within the global halal food market, focusing on the importance, problems, and methods for developing halal supply chains.

DEFINITION AND COMPONENTS OF HALAL SUPPLY CHAINS

The halal supply chain encompasses the entire process, from production to consumption. It requires a comprehensive and well-managed approach to ensure that all ingredients and methods of preparation, handling, and transportation comply with halal standards. The success of the halal supply chain depends on the commitment and dedication of all stakeholders, from manufacturers and distributors to retailers and consumers, to uphold the halal standards at all stages of the supply chain. Several critical aspects are required to ensure the integrity of the halal food supply chain. Some significant studies explore different aspects of this field:

1. **Halal Certification and Standards:** It is essential to understand the certification processes as well as the standards needed for halal food production. At the same time, researchers like to study numerous details on halal certification bodies, their criteria, and the global harmonization efforts (Haleem et al., 2019; Muhammad et al., 2020).
2. **Consumer Behavior:** Research in consumer behavior includes studies on attitudes towards halal food, factors influencing purchasing decisions such as religious beliefs, trust in certification, and perceptions of halal integrity (Ashraf, 2019; Bashir, 2019).
3. **Supply Chain Management:** This area examines the challenges and strategies in managing halal supply chains, including issues of traceability, transparency, and compliance with halal requirements throughout the supply chain (Haleem et al., 2021a; Rejeb, Rejeb, Zailani, et al., 2021).

4. **Logistics and Distribution Channel:** This aspect explores logistics practices specific to halal food, including transportation, storage, and distribution channels that ensure the integrity of halal products from production to consumption (Haleem et al., 2021b; Karia, 2019; Zailani et al., 2017).
5. **Quality and Safety Assurance:** Ensuring halal integrity involves maintaining quality and safety standards. Several studies have been conducted to investigate the methods for ensuring halal authenticity by preventing contamination throughout the supply chain (Ali & Suleiman, 2018; Kamisah et al., 2018; Ramli et al., 2020).
6. **Globalization:** As halal food markets expand globally, studies examine the implications of globalization on halal supply chains, including market access, regulatory challenges, and international trade agreements (Haleem et al., 2020; Huang et al., 2020).
7. **Sustainability and Ethical Considerations:** There is growing interest in sustainable practices within halal supply chains, including ethical sourcing, environmental impacts, and social responsibility initiatives (Haleem et al., 2021a; Salleh & Harun, 2022; Rejeb, Rejeb, & Zailani, 2021).
8. **Risk Management:** Identifying and managing risks specific to halal supply chains, such as fraud, adulteration, and regulatory compliance, are critical areas of research (Azmi et al., 2020; S. Khan et al., 2022).
9. **Technology Adoption:** Innovations in technology, such as blockchain for traceability, Radio-Frequency Identification (RFID), and Internet of Things (IoT), are explored for their application in enhancing halal supply chain transparency and efficiency (Rejeb, Rejeb, Zailani, et al., 2021).
10. **Legal Frameworks:** Research also focuses on the legal and regulatory aspects governing halal food production and distribution, including compliance with halal standards, labelling requirements, and legal frameworks across different jurisdictions (Haleem et al., 2019; Muhammad et al., 2020).

IMPORTANCE OF HALAL SUPPLY CHAINS

Addressing the importance of the halal supply chain enables businesses to achieve their full potential while meeting the diverse needs of Muslim consumers around the world. The significance of halal supply chains can be viewed through cultural, economic, and ethical dimensions:

1. **Cultural Dimension: Religious Obligation and Consumer Trust:** For Muslims, consuming halal food is a religious obligation. Halal supply chains ensure that products are free from non-permissible substances such as pork and alcohol and are prepared according to Islamic rituals, thereby maintaining religious integrity and consumer trust (Ashraf, 2019; Bashir, 2019; M. I. Khan & Haleem, 2016).
2. **Economic Dimension: Market Access and Global Growth:** The global halal food market is expanding rapidly, driven by increasing Muslim populations and growing consumer demand beyond traditional markets. Halal supply chains facilitate market access by ensuring

compliance with halal standards and certifications that are recognized internationally (Secinaro & Calandra, 2021).

3. Ethical Dimension: Ethical and Sustainability Considerations: Halal supply chains often focus on ethical sourcing, fair trade practices, and sustainability, reflecting broader consumer preferences for responsible consumption. These practices not only meet halal requirements but also contribute positively to environmental and social impacts (Rejeb, Rejeb, & Zailani, 2021).

CHALLENGES IN HALAL SUPPLY CHAINS

Despite their importance, halal supply chains face several challenges:

- 1. Complex Certification and Compliance:** Obtaining and maintaining halal certification can be complex due to varying standards and regulations across countries and regions. Ensuring consistency and transparency in certification processes remains a critical challenge (M. I. Khan & Haleem, 2016).
- 2. Supply Chain Integrity:** Maintaining the integrity of halal products throughout the supply chain, including sourcing, processing, and distribution, poses challenges related to traceability, authenticity, and prevention of contamination (Ali & Suleiman, 2018).
- 3. Technological and Infrastructure Limitations:** Some businesses lack adequate technological infrastructure for implementing advanced traceability systems like blockchain or RFID technology, which are crucial for enhancing transparency in halal supply chains (Ali et al., 2021; Mohammed et al., 2023).

STRATEGIES FOR STRENGTHENING HALAL SUPPLY CHAINS

Strengthening halal supply chains involves implementing robust strategies that ensure adherence to halal standards, enhance operational efficiency, and foster consumer trust.

- 1. Certification and Standardization:** Halal certification is the foundation for halal supply networks. Establishing reliable certification processes requires collaboration with accredited certifying bodies, ensuring transparency in certification standards, and maintaining consistency among supply chain partners. Furthermore, standardizing halal practices across borders is crucial for ensuring uniformity in halal compliance. Developing international standards and guidelines facilitates market access and increases consumer confidence in halal products.
- 2. Logistics and Supply Chain Management** Investing in halal-specific logistics infrastructure, including storage facilities and transportation systems, will help businesses prevent contamination and ensure the integrity of halal products throughout the supply chain (Zailani et al., 2017).
- 3. Technology Adoption** Advanced technologies like blockchain, IoT, and RFID can improve transparency and traceability in halal supply chains. Blockchain, for example, offers a safe and irreversible platform for confirming halal certificates and monitoring product origins, thus enhancing consumer trust and facilitating regulatory compliance.

- 4. Customer Awareness:** Educating supply chain stakeholders about halal principles and the value of compliance, as well as raising consumer knowledge of the significance of halal certification and ethical sourcing procedures, can increase demand for certified halal products.
- 5. Sustainability Initiatives:** Integrating sustainable practices into halal supply chains, such as using eco-friendly packaging and lowering carbon footprints, can attract environmentally concerned customers while also improving long-term market viability. According to research, sustainability activities not only cater to customer tastes but also improve entire supply chain efficiency (Rejeb, Rejeb, & Zailani, 2021).
- 6. Collaboration and Partnership:** Building strong partnerships and collaborations across the halal supply chain producers, distributors, and regulatory authorities is critical. Collaborative efforts can facilitate knowledge sharing, best practices implementation, and collective problem-solving.

CONCLUSION

In conclusion, halal supply chains play a pivotal role in meeting market demands and upholding religious principles and ethical standards. To ensure the integrity and reliability of halal supply chains, it is crucial to implement effective strategies that address the various challenges in the global halal industry. The main aspect of strengthening halal supply chains is developing an integrated supply chain system encompassing the entire process, from production to consumption. By focusing on certification, logistics, technology adoption, and regulatory compliance, businesses can build resilient and trusted halal supply chains that contribute to sustainable economic growth.

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