

## Food & Agribusiness Management (FABM)

### HEAD OFFICE ADDRESS:

**Zibeline International Publishing Sdn Bhd**  
C2-2-3, Block 2, CBD Perdana 3,  
Persiaran Cyberpoint Timur,  
Cyber 12, 63000 Cyberjaya,  
Selangor.  
**Tel:** +603-86879842

### Frequency:

Bi-annual (2 issue per year)

### Web:

[www.fabm.org.my](http://www.fabm.org.my)

### E-mail:

[info@zibelinepub.com](mailto:info@zibelinepub.com)

### EDITORIAL STAFF:

#### **Publishing Manager**

Tasbia Ab Rajul

#### **Publishing Co-Coordinator**

Nurul Atikah Arsat

#### **Publishing Editor**

Farah Awanis Md Radzi

#### **Publishing Editor**

Nurul Afiqah Ab Manan

#### **Technical Editor**

Nuruljannah Kamarudin

#### **Technical Editor**

Fakhruddin Che Fauzi

# Food & Agribusiness Management (FABM)

## Contents

VOLUME 2, ISSUE 1, 2020		
No	Editorial	Pages
1	LIVELIHOOD SECURITY DETERMINANTS OF THE ORGANIC FARM HOUSEHOLD IN SOUTH-EASTERN COAST OF BANGLADESH	1-5
2	PRESENT STATUS OF GRAIN LEGUMES PRODUCTION IN NEPAL	6-9
3	GENDER PARTICIPATION IN ACTIVITIES AND DECISIONS OF VEGETABLE CULTIVATION IN SURKHET, NEPAL	10-13
4	A REVIEW ON POULTRY POPULATION, PRODUCTION (EGG AND MEAT) AND DISTRIBUTION IN NEPAL	14-16
5	COMPARATIVE ANALYSIS OF COST, RETURN, PROFITABILITY AND LABOR USE IN MECHANIZED AND TRADITIONAL RICE FARMS IN NEPAL	17-22
6	VALUE CHAIN ANALYSIS OF VEGETABLE SEED IN WESTERN RUKUM DISTRICT, NEPAL	23-27
7	TREND ANALYSIS OF TECHNOLOGICAL AND AGRICULTURAL ECONOMIC GROWTH IN NEPAL	28-30
8	PRODUCTION ECONOMICS AND MARKETING OF LARGE CARDAMOM (AMOMUM SUBULATUM ROXB.) IN CHAINPUR, SANKHUWASABHA, NEPAL	31-34

# Food & Agribusiness Management (FABM)

## Editorial

Food and agribusiness have a massive economic, social, and environmental footprint—the \$5 trillion industry represents 10 percent of global consumer spending, 40 percent of employment, and 30 percent of greenhouse-gas emissions. Although sizable productivity improvements over the past 50 years have enabled an abundant food supply in many parts of the world, feeding the global population has reemerged as a critical issue. If current trends continue, by 2050, caloric demand will increase by 70 percent, and crop demand for human consumption and animal feed will increase by at least 100 percent. At the same time, more resource constraints will emerge: for example, 40 percent of water demand in 2030 is unlikely to be met. Already, more than 20 percent of arable land is degraded.<sup>1</sup> Moreover, food and energy production are competing, as corn and sugar are increasingly important for both. Such resource scarcity could lead to political unrest on a large scale if left unaddressed. Agricultural technologies that raise productivity even in difficult conditions and the addition of land for cultivation in Asia, Africa, Eastern Europe, and South America may ease the burden, but meeting the entire demand will require disruption of the current trend.

## Scientific Board

### Editorial Team

#### Editor in Chief

Dr Fridelina Sjahrir  
Faculty of Engineering and Life Sciences  
Bestari Jaya, Selangor Darul Ehsan, Malaysia

Assoc. Professor. Dr. Saidatulakmal Mohd  
Deputy Dean (Research, Postgraduates &  
Networking) School of Social Sciences Universiti  
Sains Malaysia 11800 Penang, MALAYSIA

#### Managing Editor

Dr Yazmin Bustami  
School of Biological Sciences,  
Universiti Sains Malaysia, Penang, Malaysia

Jiban Shrestha  
Scientist, Nepal Agricultural Research  
Council, Agriculture Botany Division,  
Khumaltar, Lalitpur, Nepal

Dr. Nadirah Musa  
School of Fisheries and Aquaculture Sciences  
Universiti Malaysia Terengganu  
Kuala Terengganu, Terengganu, Malaysia

#### Associate Editors

Dr. Gab Olulakin Adesina  
Department of Crop and Environmental  
Production Ladoke Akintola University of  
Technology Oyo, -State, Nigerian

#### Editorial Board

Professor. Dr. Baharuddin Salleh  
Universiti Sains Malaysia  
Pulau Pinang

Professor. Dr. Ghizan Saleh  
University College of Agroscience  
Malaysia(UCAM), Malaysia

Professor. Dr. Idris Abd Ghani  
Universiti Kebangsaan Malaysia,  
Malaysia

Professor. C Sivayoganathan  
University of Peradeniya, Sri Lanka

Professor. S L Ranamukaarachchi  
Asian Institute of Technology, Thailand

Professor. M J S Wijeratne  
University of Kelaniya, Sri Lanka

Professor. S A B A Jayasekara  
Wayamba University of Sri Lanka, Sri Lanka

Professor. Colin N. Peiris  
University of Peradeniya, Sri Lanka

Professor. K K D S Ranaweera  
University of Sri Jayawardenapura, Sri Lanka

Professor. U K Jayasinghe-Mudalige  
Wayamba University of Sri Lanka, Sri Lanka

Professor. A A Y Amarasinghe  
Sabaragamuwa University of Sri Lanka, Sri Lanka

Professor. Lal Vidana Arachchi  
Sabaragamuwa University of Sri Lanka, Sri Lanka

Professor. D M A Gunarathne  
Sabaragamuwa University of Sri Lanka, Sri Lanka

## Food & Agribusiness Management (FABM)

Professor. Mirza Barjees Baig  
King Saud University, Saudi Arabia

Professor. Gary S. Straquadine  
The Ohio State University, USA

Professor. Faisal Sultan Al-Subaiee  
King Saud University, Saudi Arabia

Professor. Serafin L Ngohayon  
Ifugao State University, Philippines

Professor. Deirdre Lemerle  
Charles Sturt University, Australia

Professor. Shabbir A Shahid  
International Center for Biosaline  
Agriculture, United Arabs Emirates

Professor. Dr. Khan Bahadar Marwat  
The University of Agriculture, Pakistan

Professor. Sandra Arifin Aziz  
Bogor Agricultural University, Indonesia

Professor. Naoki Yamauchi  
Yamaguchi University, Japan

Professor. Masayoshi Shigyo  
Yamaguchi University, Japan

Dr. Robert Blakemore  
Hanyang University, South Korea

Professor Madya Dr Connie F. Komilus  
University Sultan Zainal Abidin,  
Malaysia Terengganu, Malaysia

Dr. Ha How Chew  
University Sultan Zainal Abidin,  
Malaysia Terengganu, Malaysia

Dr. Ajar Nath Yadav  
Eternal University, Baru Sahib,  
Himachal Pradesh, India

Dr. A K M Mominul Islam  
University, Mymensingh-2202, Bangladesh

Professor. Mahinda Wijeratne  
University of Ruhuna, Sri Lanka

Damian Felladam Tangonyire  
Agriculture for Social Change Department  
Regentropfen College of Applied Sciences-Kanso  
Bolgatanga Upper East Region Ghana

Dr Emad Ali Alsherif  
Department of Botany  
Faculty of Science  
Beni Suef University, Egypt.

Dr. Cosmas Parwada  
Department of Natural Resources Management  
Faculty of Earth and Environmental Sciences  
Marondera University of Agricultural Sciences and  
Technology Marondera, Zimbabwe

### **Advisory Committee**

Prof. Dr. Md. Giush Uddin Ahmed  
Professor Dept. of Agronomy & Agricultural  
Extension University of Rajshahi Bangladesh

Professor Dr. Juan M. Pulhin  
Department of Social Forestry and Forest  
Governance College of Forestry and Natural  
Resources University of the Philippines Los Baños,  
Philippines

Dr. Muhammad Azeem Khan  
Adjunct Research Associate, Washington  
State University, WA USA Team Leader Agri-  
informatics, National Precision Agriculture and  
Analytics Lab University of Agriculture Faisalabad,  
Pakistan

Abdelhak Rhouma  
172 Bijouterie Street Jara Gabés (6000), Tunisian  
Engr. Arfan Arshad Institute of Remote Sensing  
and Digital Earth, University of Chinese Academy  
of Sciences, Beijing, China