# Food Safety Control Measures in Developing Asian Countries

Bangladesh, Cambodia, Lao PDR and Myanmar







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### **Abbreviations**

**3-MCPD** 3-monochloropropane-1,2-diol AAS Atomic Absorption Spectroscopy

ACCP ASEAN Committee on Consumer Protection
ASEAN Association of Southeast Asian Nations

**BFSN** Bangladesh Food Safety Network

BSTI Bangladesh Standards and Testing Institution

CAB Consumers Association of Bangladesh

CI Consumers International

CIRD Cambodian Institute for Research and Rural Development

**CLT** Central Laboratory Thailand Ltd

**CO** Consumer organisation

**FAO** Food and Agriculture Organization, United Nations

FDA Food and Drug Administration, Myanmar
FDD Food and Drug Department, Lao PDR
FFC Foundation for Consumers, Thailand

**FOMCA** Federation of Malaysian Consumers Associations **FoSIM** Food Safety Information System of Malaysia

**FSCM** Food safety control measures

**FSWG** Food Security Working Group, Myanmar

GAP Good agricultural practice
GC Gas chromatography

**GCMS** Gas chromatography-mass spectrometry

**GHP** Good husbandry practice

GIZ Deutsche Gesellschaft für Internationale Zusammenarbeit

GMO Genetically modified organism
GMP Good manufacturing practice

HACCP Hazard analysis critical control point
HPLC High performance liquid chromatography
IEC International Electrotechnical Commission
ILCC Industrial Laboratory Center of Cambodia

INFOSAN The International Food Safety Authorities Network ISO International Organization for Standardization

**ISO COPOLCO** ISO Committee on Consumer Policy

**LMOIC** Ministry of Industry and Commerce, Lao PDR

NATA National Association of Testing Authorities, Australia
SAARC South Asian Association for Regional Cooperation

SAC Singapore Accreditation Council

SAEDA Sustainable Agriculture and Environment Development Association

**SME** Small and medium-size enterprises

**SPS** Sanitary and phytosanitary

**UNIDO**United Nations Industrial Development Organisation

WHO World Health Organisation

### **Foreword**

"With the food supply chain stretching around the world, the need to strengthen food safety systems within and among countries is becoming more critical. That is why [...] we all have a role to perform in keeping food safe – from farm to plate."

- Ban Ki-Moon (Secretary-General of the United Nations)

The agriculture and food industry is one of the most important economic sectors in South-East Asia, accounting for up to 48% of the gross domestic product in the individual states. Until today, ASEAN Member States (AMS) have prioritised achieving food security by increasing food availability and access over concerns about food safety. In recent years, however, public attention to and demand for safe food has grown, in response to an increased awareness of the prevalence of foodborne diseases across the region. Although all of the countries across the world share similar concerns about the safety of their food, South-East Asia is subject to higher food safety risks due to climate, diets, income levels and public infrastructure.

Lack of attention to food safety has implications for trade opportunities. Food safety is a moving target - a food incident in one country can quickly spread to a geographical area - and plays a critical role for importing countries. Compliance with food safety regulations and standards is thus seen as a general prerequisite for market access. Some ASEAN countries, such as Thailand, have already put strong measures in place to ensure the safety of their food and have become leading producers and exporters of agricultural produce worldwide. CLMV (Cambodia, Lao PDR, Myanmar and Vietnam) countries have similar potential, but without a concrete food safety control system the options for export to lucrative markets worldwide (Europe, USA and Japan), as well as within the region, remain limited. The latter is particularly relevant today, as the region began moving towards the creation of a single economic community in 2015, with economic disparities between the CLMV countries and other AMSs continuing to exist.

Based on years of experience and comprehensive know-how, the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH provides expertise on regionally adapted strategies for sustainable development to countries across the world. There are three approaches in particular that focus on issues of food security, food safety and food standards within the South-East Asian context: Sector programme Regional Development and Agriculture (dedicated to enhancing food security and regional development), ASEAN Sustainable Agrifood Systems (SAS) (aiming to develop regionally coordinated policies and strategies for sustainable agriculture) and Standards in the South-East Asian Food Trade (SAFT) (supporting the implementation of food certification, including the ASEAN GAP and organic standards).

On behalf of GIZ, Consumers International (CI) conducted a study on the state of food safety in four Asian countries, namely Cambodia, Lao PDR, Myanmar and Bangladesh. The primary objectives of the study are: 1) to take stock of the existing food safety control mea-

sures in place in the studied countries and 2) to examine possibilities for strengthening the role of consumer organisations (COs) in monitoring and carrying out market surveillance. Although the study mainly focuses on the ASEAN region, Bangladesh is included in this study because of the presence of COs which are already working with agencies to address food safety concerns - a movement which is absent in the other three surveyed countries. Key findings of the study indicate that consumers in all four countries are mainly concerned about:

- high use of agricultural chemicals
- · limited number of food inspectors
- lack of properly equipped infrastructure and trained personnel to test and identify food safety risks
- · poor hygiene practices among consumers, producers and food handlers

Key shortcomings identified in the food safety control system in all four countries include:

- the need for further improvement in coordinating the different competent authorities to enforce food safety control measures
- the lack of harmonisation between national food safety standards and the Codex Alimentarius
- the low level of awareness among consumers, producers and food handlers due to limited communication and access to information on food safety

The report is structured as follows: Firstly, a general overview of the necessity for a credible food safety system in the ASEAN region is provided. Secondly, the report examines the food safety concerns of consumers in each of the selected countries. Thirdly, the study gauges Cambodia, Lao PDR and Myanmar's readiness for the ASEAN food safety harmonisation process. The report also analyses Bangladesh's experience with food safety control measures and COs. Best practices from Malaysia and Thailand are then discussed as possible ways to strengthen and enhance activities in the four surveyed countries. Lastly, recommendations are offered and conclusions drawn.

This report is supplemented with individual country reports for the countries surveyed (Cambodia, Lao PDR, Myanmar and Bangladesh).

## 1

### Introduction

#### **Food safety**

Food is considered safe when it is suitable for consumption and does not cause harm to the consumer when it is prepared and/or eaten according to its intended use (World Health Organization).

#### Food safety control measures (FSCM)

The control of potential hazards associated with foods typically involves the application of control procedures and practices in the food chain, from primary production, through processing and consumption.

As the Association of Southeast Asian Nations (ASEAN) moves towards the ASEAN Economic Community (AEC) and thus greater economic integration, increased harmonisation, convergence and regulatory cooperation within the region is essential. With a market-base of more than 600 million consumers, the economies of the ASEAN Member States (AMSs) are expected to grow following the new opportunities arising from intra-regional trade. Parallel with the increase in consumer wealth, comes an increase in awareness and interest in food safety issues among consumers. Regardless of whether food is imported or produced locally, consumers want protection against food-borne health risks which can arise from fresh agricultural produce. Although some AMSs already have sound food safety control measures (FSCMs) in place, for others, such as the CMVL countries, access to safe foods remains a major challenge.

To improve food safety in the region, all AMSs need to strengthen governance structures and enforce standards consistently, fairly and predictably. Alongside formal measures to ensure and control the safety of food, it is essential to deliver consumer education and community awareness of food safety issues. This responsibility should not be borne by governments alone. Industry actors and COs must also contribute to putting in place the level playing fields and best practices required to ensure food safety is practised from farm to table.

The overall **goals** of the Food Safety Control Measures project are:

- to strengthen food safety standards in order to protect and promote consumer health by controlling the entire food chain
- to strengthen the role of COs in monitoring and carrying out market surveillance

Table 1 displays three specific objectives of the project which support the above goals.

Table 1: Objectives of the project

Objective 1	Objective 2	Objective 3
To map and document	To examine the control sys-	To outline recommendations
national food safety control	tem for both imported and	on capacity building needs
measures	exported foods	for delivering food safety
The focus:	The focus:	The focus:
<ul> <li>the food marketing</li> </ul>	<ul> <li>Current procedures and</li> </ul>	The development of a
system	practices: capacities	national roadmap for
<ul> <li>current food safety</li> </ul>	(strengths and gaps)	ensuring food safety
situations		from the consumers'
<ul> <li>complexities in ensuring</li> </ul>		perspective
food safety		

## 2

### Methodology

The findings presented in this report are based on the outcomes of the *Food Safety Control Measures in Developing Asian Countries* regional workshop, which was held in Bangkok on 3 and 4 December 2013. The Workshop was the final activity in the Food Safety Control Measures project that was carried out by Consumers International (CI) from November 2012 to December 2013 with GIZ funding support.

Table 2: Number of participating stakeholders involved in the respective countries

Region	Countries visited	Key	Agencies/	Sites	Round-table
		informants	organisations		discussion
	Cambodia	11	11	4	15
ASEAN	Lao PDR	11	11	5	10
	Myanmar	8	8	3	64
SAARC	Bangladesh	30	18	10	13
	Total	60	48	22	102

This event served as a forum which enabled participants to discuss their experiences with food safety issues in their countries, identify focus areas, share best practices in FSCM and collectively make recommendations for improving the safety of food products. The workshop participants (Table 2) came from selected ASEAN and SAARC Member States and represented a range of agencies and institutions, including consumer and civil society organisations.

## 3.

## **Key Findings**

#### Findings I: Food safety concerns

Consumers are inevitably exposed to and affected by the food production and processing practices of their country. Consumers often look to their respective governments to protect them against unsafe foods, particularly with regard to imported food and agricultural produce. Consumers commonly assume that the products that come into their countries have gone through stringent processes to ensure their safety. It is also generally assumed that industry actors and food producers take care to ensure that their food products are safe. In recent years however, consumers have become wary about the ability and willingness of these actors to protect them from food-borne illnesses caused by unethical food production practices. There are four main food safety issues in particular that consumers are concerned about:

- 1. Information: Consumers believe that they are not given sufficient information to make informed choices. Proper and standardised food labelling is noticeably lacking in these countries and the labelling of fresh agricultural produce in local markets is very much absent. Due to the lack of transparent mechanisms and certain corrupt practices, vital information may be withheld or not communicated.
- **2. Radiation and new food technology**: Consumers feel that they are not provided with enough information to understand the new technologies that are employed in food production; this causes some to doubt the safety of these new technologies.
- 3. Contamination: Consumers lack confidence in the ability of food control services to provide the necessary protection from pesticide residues and microbiological contamination occurring during the production, processing or handling of food and agricultural produce along the supply-chain.
- **4. Food additives and preservatives**: Consumers are uncertain about the many food items available on the South-East Asian market containing substances which are banned or restricted in other countries like Germany, France and the UK, due to health concerns. These include formalin, 3-MCPD, borax, certain food colourings and additives.

Currently, the inspection and surveillance activities operated by each country at border checkpoints mainly focus on generic and routine activities, including: physical (visual) examination of imported foods, basic tests like the formalin test or borax test and inspection of health certificates provided by the exporting country.

Despite these measures taken to eliminate harmful substances in food, there are several governance, scientific and technical and social issues creating barriers to the delivery of safe food in the surveyed countries which are illustrated in Table 3.

Table 3: Barriers to achieving food safety

GOVERNANCE	TECHNICAL	SOCIAL
Inter-agency or inter-mi-	End-product testing vs. at-	Corruption issues and
nisterial coordination	source controls	food safety assurance
<ul> <li>Process and steps to-</li> </ul>	Safety issues of GMOs	Consumer choices (rights
wards certification	Use of agrochemicals	and responsibilities)
<ul> <li>Mandatory vs. voluntary</li> </ul>	Antibiotic and veterinary	Private sector awareness
requirements	drug residues/resistance	and social responsibility
	R&D and national baseline	Role of the media (educa-
	data	tion vs. marketing)

#### Findings II: Status of food safety control measures

All of the four countries reported that the institutions mentioned in Table 4 have limited numbers of food inspectors and technical experts with the relevant experience and qualifications and that this represents a critical challenge. Table 5 shows the main legislative measures in place to protect consumers against food hazards in the four countries.

Table 4: Presence of food-safety-related institutions in the countries surveyed

	Food safety agency	Food safety council	Stan- dards institu- tions	Food safety labora- tory	Food testing labora- tory	Con- sumer pro- tection agency	Con- sumer orga- nisa- tions
Cambodia	<b></b>	<b>✓</b>	<b>✓</b>	ND	<b></b>	<b>✓</b>	NF
Lao PDR	MA	<b>√</b>	<b>√</b>	ND	<b>\</b>	<b>✓</b>	NF
Myanmar	MA	NF	<b>✓</b>	ND	<b></b>	NF	<b>✓</b>
Bangladesh	$\checkmark$	<b>\</b>	<b>/</b>	<b>/</b>	<b>\</b>	<b>\</b>	$\checkmark$

Key: NF = not formed. ND = not dedicated. MA = multi-agency.

Table 5: Presence of legislative measures for food safety and consumer protection in the countries surveyed

	Food law	Food safety law	Food safety policy	Agri. Iaw	Live- stock & fish- eries law	Food stan- dards	Agri. stan- dards	Import policy on food	Con- sumer pro- tection act
Cambodia	<b>✓</b>	<b>/</b>		<b>/</b>	<b>✓</b>	limited	limited	ND	
Lao PDR	<b>\</b>	<b>√</b>	<b>/</b>	<b>\</b>	<b>\</b>	limited	limited	ND	<b>✓</b>
Myanmar	<b>√</b>	<b>√</b>			<b></b>	limited	limited	ND	
Bangla- desh	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	limited	limited	<b>✓</b>	<b>√</b>

Key: ND = not dedicated. P = currently being drafted.

## FSCM in Cambodia, Lao PDR, Myanmar and Bangladesh

The status of FSCMs in each individual surveyed country will now be closely examined, followed by recommendations for immediate action in response to the gaps and challenges identified.

#### 4.1 Cambodia

The Inter-Ministerial Prakas No. 868 on the Implementation and Institutional Arrangements of Food Safety Based on the Farm to Table Approach (IMP868) is a key legislative measure that forms the framework for food safety in Cambodia. A progressive measure currently being developed to ensure consumer protection against unsafe food is the national policy on food safety. The Food Safety Bureau, under the Ministry of Health, is overseeing the drafting of this legislation, with the following objective: The implementation of a sound food safety system for the protection of consumer health, the reduction of the Royal Government of Cambodia's fiscal burden of disease and the enhancement of national production efficiencies and national food export competitiveness. In addition, a new food safety initiative is implementing the Prakas through setting modalities and guidelines for the issue of voluntary certificates of good hygiene practice for restaurants and catering establishments, as well as the development of a recognisable logo (health mark).

The gaps and challenges in FSCMs in Cambodia include:

- lack of food safety policy
- · lack of inter-ministerial coordination and overlapping responsibilities
- lack of effective border controls (inspection and monitoring)
- lack of expert assistance to work on food safety issues
- insufficient staff in food safety administration
- lack of trained manpower (for using equipment and kits)
- · lack of national standards for food safety and management
- · absence of consumer representation/consumer voice
- · porous borders.

Considering the identified gaps and challenges listed above, there are six areas where immediate action can be taken to improve food safety in Cambodia:

#### 1. Develop a national food safety policy

To move forward, it is important to engage food policy experts in discussions with the Food Safety Bureau, to provide the Bureau with guidance and technical assistance and to ensure a consumer perspective is taken in developing a holistic farm-to-table approach.

#### 2. Develop national standards that are harmonised with ASEAN standards

To ensure the effective implementation and enforcement of food safety in Cambodia, it is vital to strengthen the capacity of the standards agency, Institute of Standards of Cambodia (ISC), in the following areas: 1) produce a high-risk food list and 2) establish technical committees to develop national standards which include consumer representation and focus on:

- assisting the development of food-related standards
- assisting in developing the capacities and experience of ISO auditors
- advancing standards by making voluntary standards become mandatory
- drawing up halal standards

#### 3. Strengthen and maintain a food safety database

It is important to integrate the current efforts of the ASEAN Food Safety Network with those of the International Food Safety Authorities Network (INFOSAN). The latter is a joint programme of FAO and WHO, which links the national authorities in its member states responsible for managing food safety emergencies.

#### 4. Develop and strengthen COs

To support governmental and industry efforts to ensure food safety, it is important to enhance the role of COs in Cambodia. The Consumers Association of Cambodia needs to be reactivated and its role strengthened and the Cambodian Institute for Research and Rural Development's (CIRD) interest in diversifying its functions as a CO needs to be supported. It is also important to build the knowledge and capacity of the focal point for the ASEAN Committee on Consumer Protection (ACCP), a role currently performed by Camcontrol, and to empower independent COs to support monitoring and surveillance activities.

#### 5. Provide human resource development and training

The strategy going forward should seek to take advantage of and leverage existing initiatives in the country, including:

- Scaling up FAO and UNIDO efforts to improve the laboratory/testing capacity and facilities of the Food Safety Bureau
- Building ILCC's capacity to provide services and generate income and, thereby, enable it to be financially independent, sustain its operations and cover its accreditation fees
- Providing laboratory training and technical assistance on the use of newly acquired modern chemical equipment (HPLC, GC, GC-MS, AAS), delivered through partnerships and secondment programmes conducted within or between ASEAN countries and donor countries
- Providing training in analysis and detection methods and data reading and interpretation, particularly for beta-agonist and aflatoxin (the beneficiaries of this training would be Camcontrol, ILCC, ISC and COs)
- Providing training to producers, manufacturers, importers, exporters and consumer representatives or organisations in: food safety compliance processes, the requirements for SPS, GAP, GMP, HACCP and labelling and understanding Codex, ISO, ASEAN and other international standards like Global GAP, UNECE, etc.

#### 6. Promote consumer education and community awareness

Consumers are the end users of commercial products, which means they should be informed about what they are consuming and the associated health risks, benefits and other social impacts. In Cambodia, the most important factor in educating consumers about food safety is enabling them to understand their own roles, responsibilities and rights to safe food. Education campaigns and awareness programmes may be aligned with the regional work and efforts of the ASEAN Committee on Consumer Protection (ACCP).

Other priorities and focus areas for strengthening FSCM in Cambodia are captured in the supplementary country report in Appendix I.

#### 4.2 Lao PDR

Lao PDR has made progressive efforts to ensure food safety in the country. Apart from the government, other stakeholders including inter-governmental agencies such as FAO and WHO and civil society organisations have been actively working to raise public awareness on food safety issues. Since 2006, the WHO Healthy Food Markets initiative has been operating in seven provinces across the country with the aim of improving the health of urban populations, particularly those with low incomes. Most of the programme measures taking place in the country are donor-funded programmes. The Government of Lao PDR allocates a limited budget to the operations under the food safety programme.

In addition, the provincial city development programme called the Green City Programme is working to deliver cleaner and healthier cities in three provinces and is also prioritising the sustainable production of agricultural produce and the promotion of organic markets, while emphasising GMP practices and environmental controls for crop and animal products. Lao Organic Standards is an important tool for advancing food safety in the country by preventing issues from occurring at source. However, the Lao GAP Project, which was launched in 2012, has yet to begin and, to date, no on-the-ground project activity has been observed. The main constraint is limited staff numbers – for example, at present, just six staff work on promoting technical and clean agricultural practices in the Vientiane area. Basic rapid test kits (usually sourced from Thailand), e.g. for formalin adulteration, are commonly used in market surveillance.

Gaps and challenges in FSCMs in Lao PDR include:

- · insufficient human resources
- limited equipment, tools and testing kits
- inexperienced/inadequately trained staff for dealing with domestic controls and import inspections (lacking appropriately qualified, certified and trained human resources)

Considering the identified gaps and challenges listed above, there are four areas where immediate action can be taken to improve food safety in Lao PDR:

#### 1. Human resource development and training

In the short term, secondments, staff exchanges or internships can be provided – for ex-

ample, qualified and trained staff from countries with more advanced food safety systems can be brought in to train local teams. Human resource development and training needs to focus on the technical aspects of food safety and consumer protection, as well as policy implementation and enforcement. Ultimately, to ensure food safety in Lao PDR in the long term, it is vital to build human capacity. This can be supported by engaging with the Ministry of Health, Ministry of Agriculture and Forestry and the Ministry of Industry and Commerce (LMOIC), and also by setting up a system to develop local university programmes matching recruitment needs, including food technologists, laboratory technicians and food inspectors.

The Consumer Protection and Competition Division (under LMOIC's Department of Domestic Trade) needs increased capacity and a stronger role in dealing with food safety issues. Currently, this division is failing to address food safety issues in the country, merely using and capitalising on the knowledge and experience of mature civil society organisations such as the Sustainable Agriculture and Environment Development Association (SAEDA), which also supports surveillance and monitoring activities and lessens the government's burden.

#### 2. Food safety facilities, laboratories and accreditation

Guidance for achieving laboratory accreditation is important for Lao PDR as to date, no laboratory in the country has received ISO 17025 accreditation. Working on securing accreditation is therefore an immediate priority. New laboratories have been constructed, primarily animal laboratories. At present, FDD mainly focuses on chemical testing and will require support if it is to secure accreditation and become a fully-fledged food testing facility. Expert support is also needed on auditing and procedures, and on operating equipment and tools.

#### 3. Food import control system

Strengthening entry-point transactions is crucial for ensuring consumer protection in the domestic market, and best practice in this area needs to be shared. At the time of writing, no routine or specific food testing was carried out at the land transport entry-points. Additionally, communication and data management facilities are insufficient. While improving and upgrading these facilities may require substantial financial support, providing basic tools and computer or hand-held devices to ensure more systematic data entry and reporting can help in preventing the recurrence of cases involving products with problematic histories, considering that on-the-spot checks can be carried out.

#### 4. Developing and strengthening COs to carry out surveillance and monitoring

Enhancing the role of COs in Lao PDR is an important way to support governmental and industry efforts to ensure food safety. For this project, the absence of COs in the country has been compensated for by the presence of other civil society organisations, such as SAEDA.

Other priorities and focus areas for strengthening FSCM in Lao PDR are captured in the supplementary country report in Appendix II.

#### 4.3 Myanmar

The absence of a single national-level committee for consumer protection is a causal factor in the country's weak provision of food safety, even though two main food safety institutions have been established. Progressive efforts to ensure food safety through consumer protection are being made, with the Department of Commercial and Consumer Affairs (under the Ministry of Industry and Commerce) currently drafting a consumer protection policy. The policy aims to address consumer concerns and the issue of import/export licenses for consumer goods.

There are four areas where immediate action can be taken to improve food safety in Myanmar:

#### 1. Policy formulation and coordination

In order for a comprehensive food safety strategy to be effectively implemented, existing policies need to be better coordinated to avoid overlaps and define specific responsibilities. To this end, initial work must be undertaken on reviewing and revising national food laws and other relevant laws. External policy expertise is required to support Myanmar in formulating a food safety control framework which encompasses consumer protection.

#### 2. Food safety education for consumer protection

The best protection against any potential hazards is self-protection. Understanding food safety issues can help consumers minimise experiences with potential food hazards. Food safety campaigns, information sharing and media sensitisation can help to educate and create community awareness. Targeting food safety awareness and promotion in cottage industries through a national development scheme and supporting the Myanmar Fisheries Federation and Myanmar Livestock Federation to educate their members about food safety compliance (HACCP, GAP, GMP, CAC and ISO) can further enhance consumer protection.

## 3. Developing national food standards which are harmonised with regional and international standards

Increasing food safety compliance among the market actors involved in food and agricultural production is important for Myanmar, but progress is relatively slow. Laws on standardisation and national standards on food and agricultural produce, planting materials, fertilisers, agrochemicals and heavy metals are still being developed.

The standards development process needs to be expedited by enhancing the technical capacity of the relevant agencies and ministries like Myanmar's Ministry of Science and Technology Research Department and Ministry of Livestock and Fisheries (in areas such as GAP, GMP, HACCP and ISO). Competent systems for the certification and issue of health certificates for fisheries and livestock need to be installed and the potential for public-private partnerships for addressing food safety issues needs to be harnessed. When industry adopts good production practices, the health care costs currently met by the Government and people of Myanmar will be reduced.

#### 4. Developing and strengthening COs to conduct surveillance and monitoring

The presence of the Food Security Working Group (FSWG) is a good indication that the time is ripe to drive the food safety agenda forward in Myanmar. Enhancing FSWG's role by making it a fully functional and recognised CO would mean it could support the government and industry in their efforts to deliver safe food. FSWG has participated in several platforms on food security and food safety, and works to educate its members (producers) and conduct research.

Other priorities and focus areas for strengthening FSCM in Myanmar are captured in the supplementary country report in Appendix III.

#### 4.4 Bangladesh

The adoption of the new Food Safety Act (2013) is a progressive measure for ensuring food safety, which has promoted a more strategic and defined framework for ensuring consumer protection against unsafe food. The development and implementation plan for the Act also recognised the role and functions of COs in providing input and taking part in surveillance and monitoring.

Surveillance and inspection in Bangladesh is not carried out using a risk-based approach, but based on end-product analysis and does not cover the entire food chain. Weak enforcement powers, coupled with limited technical skills and poorly equipped facilities, continue to hold back the development of food safety. In addition, poor, inconsistent and decentralised data recording and filing systems also limit Bangladesh's capacity to deliver food safety and preventive measures.

Unique issues for Bangladesh are: the challenge of managing its large consumer base; the mega-urban food systems involving street vendors who operate small, unregulated carts that feed millions of people daily, but which problematize the delivery of food safety; and poverty, which means many households are forced to prioritise food availability, affordability and accessibility over food safety.

Gaps and challenges in FSCMs in Bangladesh include:

- · lack of consumer education
- insufficient community monitoring roles and functions to help enhance food safety measures
- insufficient market surveillance (food safety indicators based on the number of samples and areas covered)
- insufficient COs with the capacity to carry out independent market surveillance
- lack of food inspectors (to enhance the image and reputation of the service)
- · insufficient infrastructure and technical and public facilities
- · insufficient safe street-food carts

Considering the identified gaps and challenges listed above, there are five areas where

immediate action can be taken to improve food safety in Bangladesh:

#### 1. Consumer education and community awareness

#### Mobilising the community

Consumers need to take responsibility for food safety and ensuring that it becomes an important issue in Bangladesh. Understanding cultural affinities is a key factor in raising the public's awareness. To mobilise the community, education campaigns on food safety may be delivered through drama performances, folk songs and other arts-based approaches. Initiatives should also seek to enhance the role of the District Consumer Rights Committees, imams, community leaders and BFSN.

Embedding food safety and consumer protection in primary-level course curricula

Instilling positive habits and behaviours that enable people to protect themselves against unsafe food can be achieved through education. Integrating food safety components and consumer protection courses into the school syllabus at the primary level can help change behaviours and mind-sets and ensure food safety at the individual and household level. To achieve this, the cooperation and empowerment of the Ministry of Education is required

## 2. Developing national standards that are harmonised with regional and international standards

To ensure effective implementation and enforcement of food safety in Bangladesh, it is vital to strengthen the capacity of BSTI. Efforts must focus on the adoption of international standards on pesticide residues, food additives, heavy metals and GMOs. The capacities of the technical committees developing standards need to be enhanced to enable them to deal with the technical issues at hand. In addition, stakeholder representation in the standards development process must be inclusive. National GAP or organic standards also need to be developed and best practices shared.

#### 3. Developing and strengthening COs to carry out surveillance and monitoring

Enhancing the role of COs in Bangladesh is an important way to support government and industry efforts to ensure food safety. The capacity of CAB and other civil society organisations such as BFSN and UBINIG to conduct independent surveillance and monitoring activities needs to be strengthened.

#### 4. Inspection and enforcement

Technical support for the relevant agencies needs to extend through the integration of risk-based analysis. Inspection and enforcement require trained personnel and inclusiveness, meaning that COs must be represented on the inspection team. The strength and role of BSFN need to be fully exploited. In addition, the professionalization of the food inspector role should be given greater accreditation and recognition in order to build respect for the career.

#### 5. Human resource development and training

In order to develop training programmes that meet Bangladesh's needs for enhanced food

safety, a proper study and inventory exercise must be carried out. When gathering data on existing staff involved in FSCMs, it is important to capture not only numbers but also individual qualifications and experience in inspection, testing and surveillance. Bangladesh's food safety laboratories and facilities currently lack sufficient numbers of trained personnel. Other priorities and focus areas for strengthening FSCM in Bangladesh are captured in the supplementary country report in Appendix IV.



## **Sharing Best Practices**

In this section, good practices to ensure the safety of food products from Malaysia and Thailand will be shared, as these can be replicated and tailored to meet the needs and circumstances of the four surveyed countries.

#### 5.1 Malaysia

Malaysia, a fast-developing AMS, has implemented strong measures to ensure that food imported into the country is safe. Even though the Ministry of Health does not require import permits for food imports, there are some foods requiring a health certificate, certificate of analysis or special approval for importation. These measures are predominantly implemented in compliance with the Food Act 1983 and its regulations.

Malaysia uses an automated and linked platform to manage and monitor food safety at import entry points. The intelligent web-based information system called the Food Safety Information System of Malaysia (FoSIM) has been used to enhance the management of food importation activities electronically. FoSIM works in conjunction with the Customs Information System and enables enforcement officers at every entry point in the country to carry out continuous monitoring of all food consignments entering the country.

Although the system requires a high financial investment, it has ultimately proven to be invaluable, generating health-cost savings and ensuring the quality of life of all consumers in Malaysia. The convenience of using the system has also allowed the Ministry to channel its human resources to focus more on preventive measures at-source rather than at the end-point stage. There are also negative aspects of too much food testing along the supply chain and at the end-point, considering that the chemicals used for testing are also sources of environmental contamination and can end up polluting rivers or the water supply. For this reason, preventative steps towards ensuring food safety must be carried out at the source of food production.

Since 2003, FoSIM has supported the Food Import Control Programme of Malaysia. The enforcement regime for food imported into Malaysia involves:

- by sea inspection of 40% consignments
- by air inspection of 35% consignments
- overland inspection of 70% consignments
- 10% sampling of inspected consignments

FoSIM has enabled decision-making based on a risk-based approach to inspection. As importers and agents have to log on to FoSIM, prior notice of planned imports can be obtained

or new enquiries on the examination level required for a particular food item can also be performed. Food alerts can be shared online and any previous entry of a specific consignment of food can be tracked and detected, thus deterring the 'port-hopping' phenomenon. To carry out import notifications, importers or agents must first declare their imports on the Customs Information System and then log on to FoSIM and complete the notification module. This process is illustrated in Figure 1.

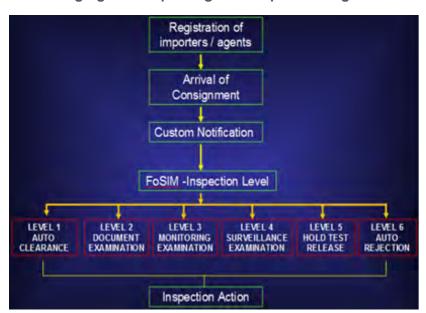


Figure 1: Managing and inspecting food imports using FoSIM in Malaysia

Surveillance and food safety risk assessment in Malaysia addresses the actions to be taken on rejected consignments. Depending on the nature or reason for rejection, the consignments may be re-exported, destroyed (high risk), relabelled, reprocessed or reconditioned. Market surveillance is carried out when there are specific concerns about food safety, and often involves food products being analysed for a particular contaminant, such as rice for arsenic, seaweed for heavy metals, starch-based food products for maleic acid or eggs for *Salmonella enteritidis*.

In the event that a food recall is commissioned, the following actions are required:

- The importer or manufacturer is instructed to recall the contaminated food, provided that 1) the name and address of the importer or manufacturer is available and 2) the product batch number is available.
- If the above information is not available, a food alert is issued to seize the product nationwide.

Currently, Malaysia is the only AMS to implement the system, meaning some issues do arise from inconsistency or unharmonised standards among trade partners. In the near future, when all ASEAN countries have harmonised their standards, the region will be able to operate the same levels of safety inspection at source rather than at the end point. With harmonised ASEAN standards, Malaysia envisages lower inspection and surveillance costs, considering it will no longer need to perform inspections for the full suite of options in

its surveillance system.

The main benefits of FoSIM in ensuring safety and managing food imports include:

- effective, efficient and transparent clearance of food import consignments
- importer/agent preparedness through prior knowledge of import status
- · a harmonised surveillance system at all entry points
- · better preparedness for crisis management relating to imported food
- · the prevention of port hopping

#### 5.2 Thailand

The Thailand National Food Committee Act 2008 emphasises four key areas: food security, food safety, food quality and food education. The Act also specifies the roles and responsibilities of the Thai FDA in ensuring food safety, particularly in:

- · issuing notifications on behalf of the Ministry of Public Health
- performing pre-marketing controls
- · performing post-marketing controls
- · performing import controls
- · conducting surveillance
- · providing technical support, cooperation and knowledge sharing
- · disseminating knowledge and developing consumer behaviour

Thailand's FSCM are also based on a consumer protection approach to ensure safety and efficacy (identity and nutrition). Food safety is communicated to consumers through recognisable and identifiable logos or food safety marks (see Image 1).

Image 1: Food safety logos in Thailand







Thailand has a very comprehensive FSCM strategy; however, policing all areas involved in FSCM is not an easy task. Thailand, despite being categorised as a newly industrialised country, is still plagued by budgetary constraints. As such, a greater focus is needed on the more vulnerable areas of the food chain, rather than trying to cover all bases.

Table 6 summarises the key findings of all six countries.

Table 6: Key Findings of surveyed countries

	Table 6: Key Findings of surveyed countries
	SUMMARY
Cambodia	• Inter-Ministerial Prakas IMP868 is a key legislative measure for in-
	ter-agency coordination.
	National food safety policy is currently under development.
	Consumer rights are embedded in the national constitution.
	Several laboratories, such as ILCC, have NATA, SAC and ISO
	17025:2005 accreditations.
	SUMMARY
	The national certification system and accreditation bodies have yet to
	comply with international requirements or secure accreditation from
	recognised international bodies.
	Expert assistance is needed on developing standards.
Lao PDR	The Food and Drug Department (FDD) is the key food safety agency.
Zuo i Dit	<ul> <li>Food Law 2004 is currently being revised to include provisions on</li> </ul>
	SPS, farm-to-table food services, labelling and GMOs.
	A national Food Safety Policy has been in place since 2009.
	Laboratory and border checkpoint facilities for managing, inspecting
	and monitoring food safety and agricultural products are underdevel-
	oped and, in part, deficient.
	Human resources and expertise are insufficient in several food safety
	areas, including the identification, diagnosis and testing of foods.
	Lao organic certification is in place and organic produce is being pro-
	moted.
	Some immediate concerns include the lack of data on veterinary drug
	abuse or misuse on livestock farms, reporting on consumer com-
	plaints and the capacity to test or work with residues in meat products.
Myanmar	<ul> <li>There are a number of food safety implementing agencies, coordinat-</li> </ul>
Iviyalillai	ed through two main national institutions; the Department of Food and
	Drug Administration (FDA) and the Myanmar Food and Drug Board of
	Authority (MFDBA).
	Consumer protection is enshrined in the Consumer Protection Law
	that was adopted on 14 March 2014.
	There are currently laws in place on labelling or rights to information.
	FDA delivers programmes and training using IEC materials and tra-
	ditional media to raise the awareness of food producers about food
	safety.
	Government agency staff do not have sufficient experience or the
	appropriate qualifications to implement FSCM.
	Food inspection, surveillance and monitoring at border checkpoints
	needs to be strengthened.
	The coordination of and communication between the authorities re-
	sponsible for food safety control need to be improved.

Table 6: Key Findings of surveyed countries (continued)

	SUMMARY
Bangladesh	<ul> <li>A Food Safety Act has been adopted and a new Food Safety Authority established.</li> <li>Food safety indicators have been determined.</li> <li>A limited number of food safety and quality standards are in place.</li> <li>Food inspections suffer from a lack of manpower, but the administrative units are widely distributed and the coverage is broad.</li> <li>Food safety facilities and infrastructure range from out-dated to modern and technical experts are insufficient in terms of numbers and/or skills.</li> <li>A small number of companies possess ISO food safety management certification.</li> </ul>
Malaysia	<ul> <li>Coordinating the safety of food imports is a ministerial responsibility.</li> <li>Since 2003, a web-based platform (FoSIM) has been used to manage food import activities and facilitate online information sharing.</li> <li>There are six examination levels in the inspection and clearance process.</li> <li>Adequate manpower helps to ensure the system is effective.</li> </ul>
Thailand	<ul> <li>A Strategic Framework of Food Management is being planned.</li> <li>An umbrella institution (the National Food Committee) is being established to ensure inter-ministerial and inter-agency coordination (for food security, safety and quality and food education).</li> <li>Consumer education is being delivered through branding and recognisable food quality and safety logos.</li> <li>Food education is being strengthened (basic, best practice, output-based on R&amp;D and knowledge use).</li> <li>Current and emerging issues in the food sector are being dealt with using a food safety management system.</li> </ul>

## Recommendations and the way forward

Strengthening of the FSCM in Cambodia, Lao PDR, Myanmar and Bangladesh requires a multi-level approach that needs to be tailored and targeted at various levels. In general, there is an immediate need in these countries to provide education and raise public awareness of food safety issues, while enhancing the capacity of governmental and private testing laboratories specialised in analysing pesticide residues in fruit and vegetables. It can be concluded that these four countries need to improve the competence of their laboratories and their inspection systems for food and agricultural products. Table 7 summarises suggested actions for following up on this project.

Table 7: Proposed immediate follow-up activities

	TOPICS	TARGET GROUPS	PARTICIPANTS
		(action points to be supported)	(beneficiaries)
	Training     needs analy- sis	CI and relevant human resource development agencies (national or regional)	All government agencies and institutions involved in food safety control measures
National baseline studies	Benchmark- ing national standards against best practices in the region	CI and ISO COPOLCO	The standards agencies and standards users in each country
National seminar series and cam- paigns	<ul> <li>Consumer and food safety</li> <li>Food pres- ervation and preparation</li> </ul>	<ul> <li>CI</li> <li>COs and food safety agencies in the country</li> <li>WHO and COs</li> </ul>	<ul> <li>Community networks, government agen- cies, industry actors and the media</li> <li>Community networks, food handlers and sellers, and SMEs</li> </ul>
National work-	Food pro- duction and compliance	Departments of agriculture, fisheries and livestock	Food producers, importers, exporters, distributors, retailers and SMEs
shop series	Developing national stan- dards	Standards agencies	Other relevant go- vernment agencies, industry actors and COs

Table 7: Proposed immediate follow-up activities (continued)

	TOPICS	TARGET GROUPS	PARTICIPANTS
		(action points to be supported)	(beneficiaries)
	National food safety policy formulation and imple- mentation	Cooperation with ASEAN Member States or SAARC Member States	The food safety     agencies and stake- holders in each reci- pient country
	Enforcement of food safety laws	Food safety agency, consumer protection agency and the judi- ciary	Food safety agencies and stakeholders in each recipient country, including the consumer protection agency
	• FAO Risk Analysis Toolkit <sup>1</sup>	Food safety agencies	Food inspectors, la- boratory technicians, industry actors, con- sumer agencies and organisations
	Recall and alert mechanisms	<ul> <li>ASEAN Food Safety Network and ASEAN Committee on Con- sumer Protection, CI</li> </ul>	
Regional work-	Food safety information sharing	WHO INFOSAN	
shops	ASEAN GAP	ASEAN Secretariat	Food and agricultural producers, standards agencies, consum- ers, SMEs and organisations
Tech- nical training work- shops	Pesticide     residue limits     and testing	Laboratory services and suppliers, technical experts on maximum residue	Food laboratories

<sup>&</sup>lt;sup>1</sup>The FAO Risk Analysis Toolkit is designed to assist countries with different capacities, resources and challenges to strengthen their food control systems (at the time of writing, this was still being developed).



### **Concluding remarks**

At present, donor support in terms of financial, technical and infrastructural matters is critical to expedite the efforts aimed at ensuring food safety in developing and least-developed countries, in both ASEAN and the wider world. Least-developed countries are seeking the support of international donors and the governments of developed countries, not only to strengthen their competency to participate in international trade, but also as a means of providing safer domestic markets and protecting their consumers.

This exercise, which was undertaken by Consumers International with the financial support of GIZ, has led to a greater realisation that much remains to be done in the surveyed countries, considering that all four face an uphill struggle to address food safety issues, and that these issues are often overshadowed by other fundamental food security concerns. It is hoped that the recommendations provided in this report are implemented to improve food safety, not only in Cambodia, Myanmar, Lao PDR and Bangladesh, but also in other developing countries where access to safe food remains an everyday struggle.

## Appendices

**Appendix I: Country Report for Cambodia** 

Appendix II: Country Report for Lao PDR

**Appendix III: Country Report for Myanmar** 

**Appendix IV: Country Report for Bangladesh**