5. 国際会議

インド、バングラデシュ、ネパール、スリランカ

における食品及び食品添加物の法的枠組みと事例研究

インド、バングラデシュ、ネパール、スリランカにおける 食品及び食品添加物の法的枠組みと事例研究

- 日 時: 平成 25 年 2 月 22 日 (金) 10:00-17:00
- 場 所: 海運クラブ2階 (東京都千代田区平河町2-6-4 <u>http://kaiunclub.org</u>)
- 主催:特定非営利活動法人 国際生命科学研究機構 (ILSI Japan)
 東京都千代田区麹町 3-5-19 にしかわビル 5 階
 Tel: 03-5215-3535 Fax: 03-5215-3537 (<u>http://www.ilsijapan.org</u>)

使用言語: 日本語及び英語(同時通訳あり)

<u>プログラム</u>

10:00-10:15 開会の挨拶

<u>木村 修一</u>(ILSI Japan 会長)

Session 1:

- 10:15-10:40 農林水産省ご挨拶:農林水産省大臣官房参事官 兼 食料産業局 海外展開・輸出促進グループ長 小川良介
- 10:40-11:15 基調講演:インド食品安全基準法と食品添加物規則 <u>Pradip Kumar Chakraborty</u>, Director (Zone/Product Approval), Food Safety and Standards Authority of India
- 11:15-11:55 農林水産省東アジア食品産業海外展開支援事業及び ILSI の紹介 <u>浜野弘昭、山口隆司</u>(ILSI Japan)

12:00-13:00 昼 食

Session 2:

13:00-13:40 インドにおける食品及び食品添加物の法的枠組み

香村正徳 (味の素㈱)

- **13:40-14:10** スリランカ、バングラデシュ、ネパールにおける食品及び食品添 加物の法的枠組み **Rekha Sinha** (**ILSI India** 事務局長)
- 14:10-14:50 アセアン (ASEAN) における食品及び食品添加物基準のハーモナ イゼーションの動向

Teoh Keng Ngee (ILSI 東南アジア地域支部)

14:50-15:10 休 憩

Session 3:

15:10-15:30 インドにおける加工食品の市場について

D.H. Pai Panandiker (ILSI India 会長)

15:30-16:00 事例研究 1: 味の素㈱のインドにおける事業展開

<u>濵野勝男</u>(味の素㈱)

16:00-16:30 事例研究 2: ヤクルトの国際事業

赤星良一(㈱ヤクルト本社)

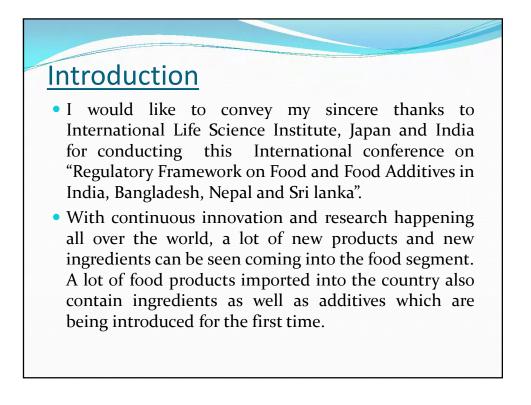
16:30-16:55 質疑応答及び総合討論

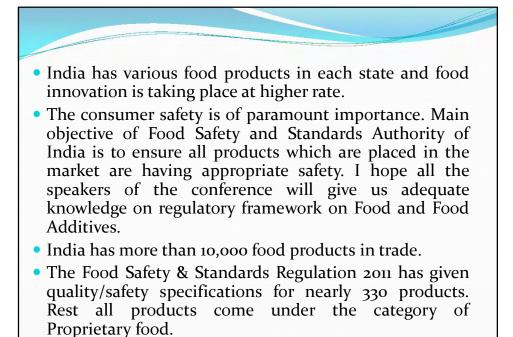
16:55-17:00 閉会の挨拶

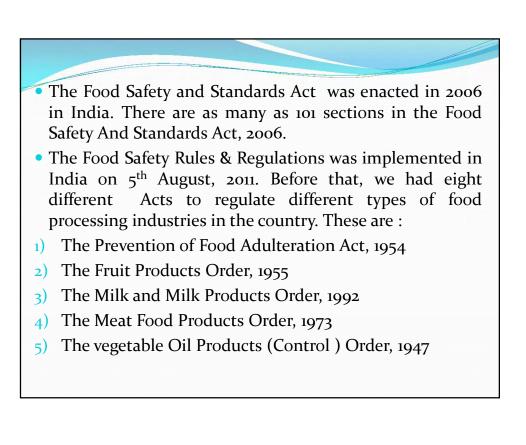
山口隆司 (ILSI Japan 事務局長)

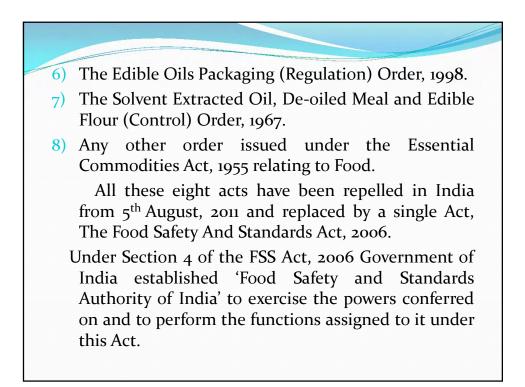
インド食品安全基準法と食品添加物規則

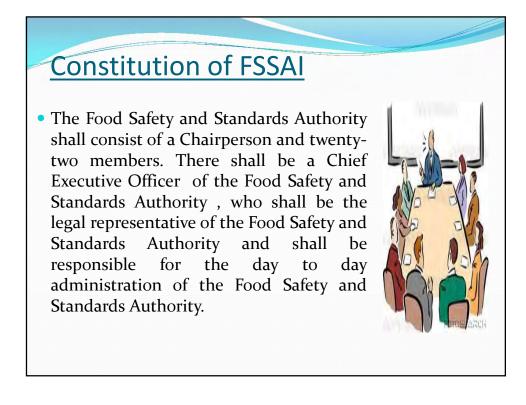


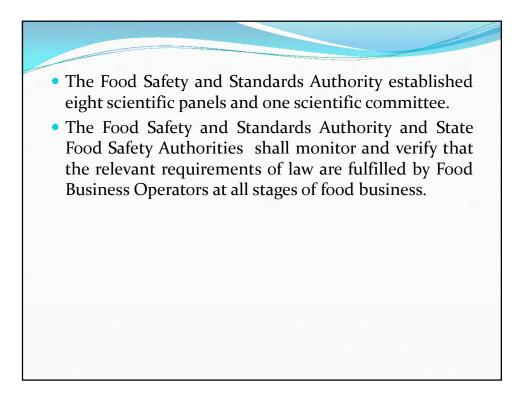


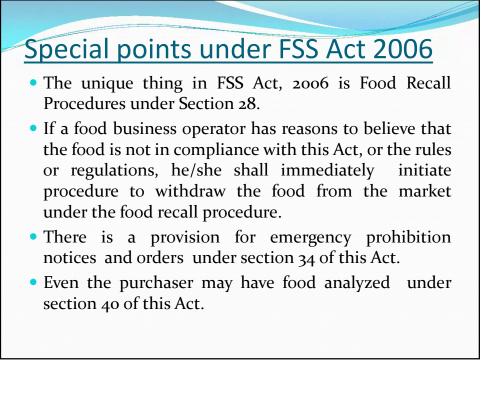












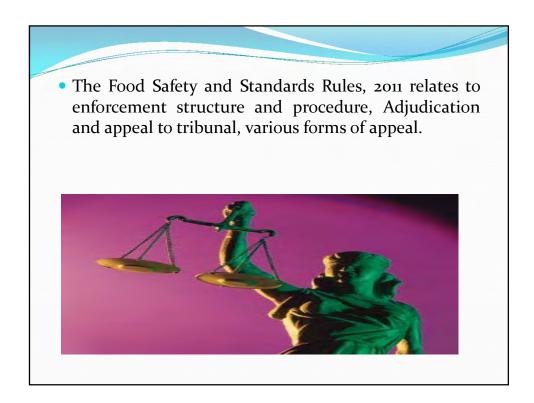
Provision for Penalty

• There are provisions relating to substandard food, misbranded food, food containing extraneous matter, food not of the nature or substance or quality demanded, unhygienic processing of food, possessing adulterant, unsafe food.

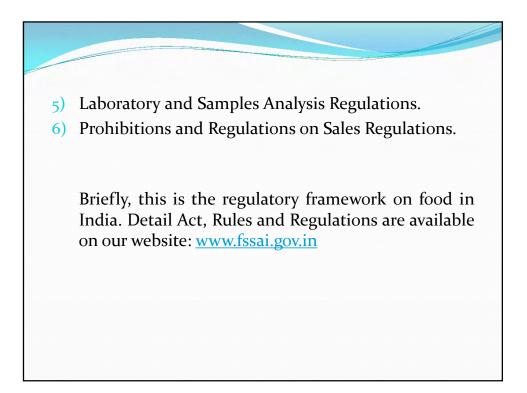


• Even there is provision relating to penalty for misleading advertisement. Degree of penalty ranges from INR 100,000 to 10,00,000.

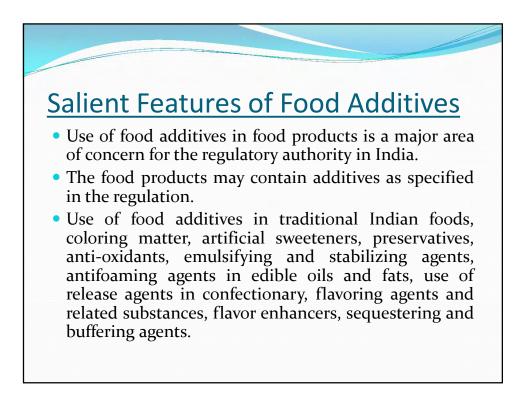


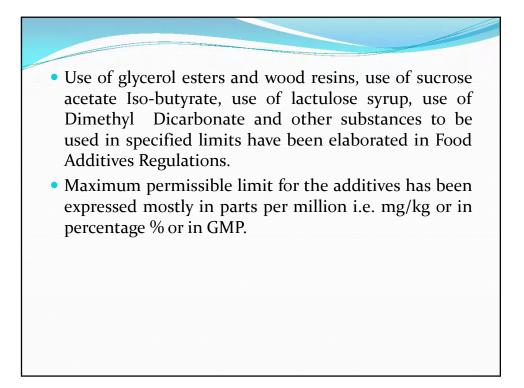


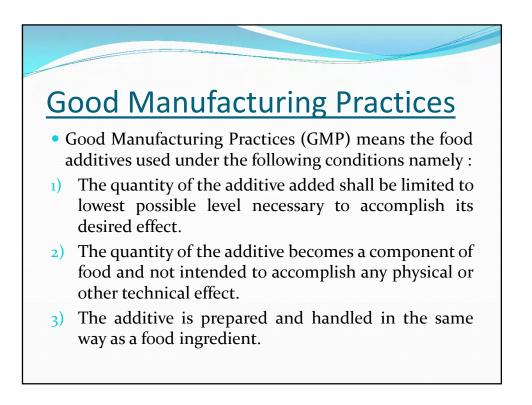












Summary of list of FoodAdditivesAdditivesTable 1:• List of food additives for use in bread and biscuits have
been specified in table 1 of the Food Additives Regulations.Table 2:• In table 2, permitted food additives for use in foods like
snacks, sweets, instants mixes , rice and pulses based
papads, ready to serve beverages, chewing gum, sugar
based/ sugar free confectionary, chocolates, synthetic
syrup, lozenges, have been specified.

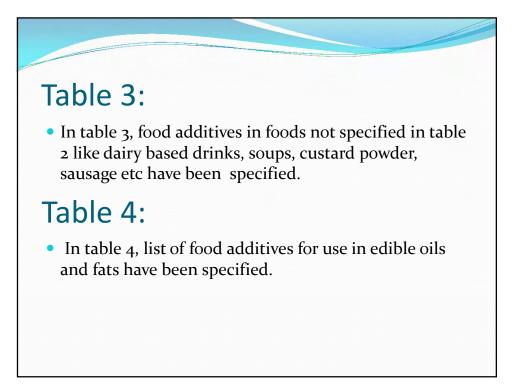


Table 5:

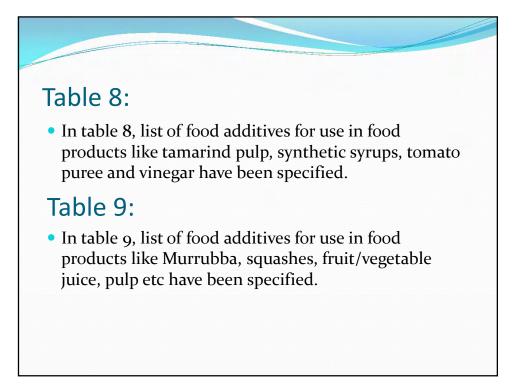
• List of food additives for use in fish and fish products have been specified in table 5.

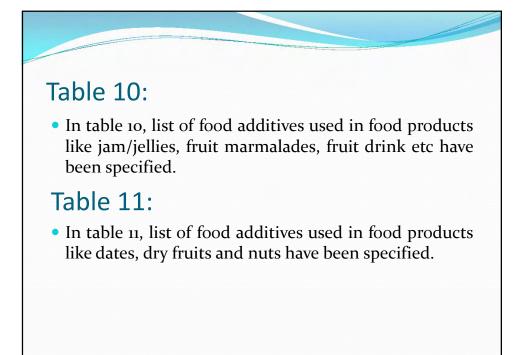
Table 6:

• List of food additives for use in thermally processed fruits have been specified in table 6.

Table 7:

• In table 7, list of food additives in thermally processed vegetables have been specified.





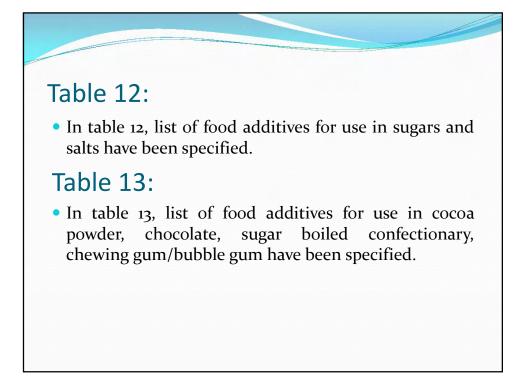
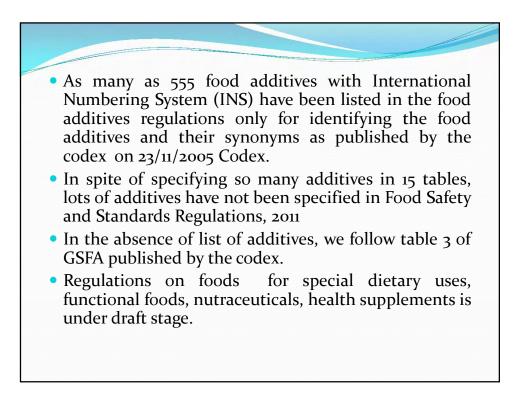


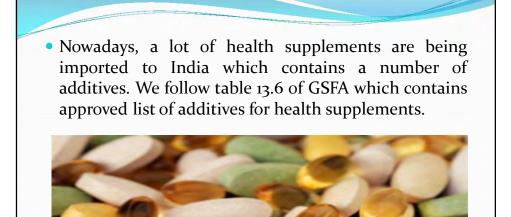
Table 14:

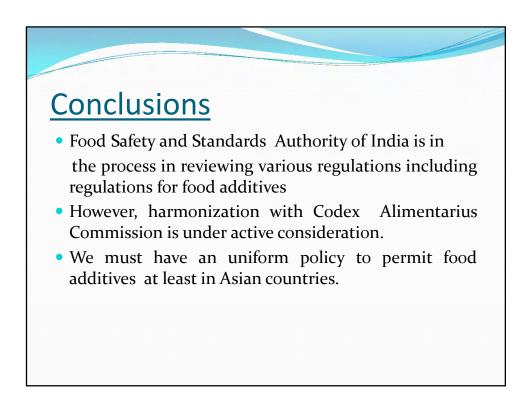
• In table 14, list of food additives for use in milk products have been specified.

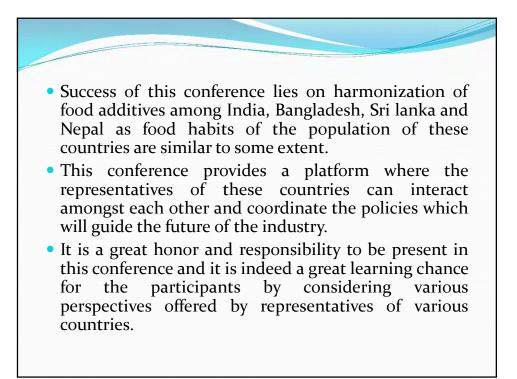
Table 15:

• In table 15, use of food additives in individual variety cheeses have been specified.





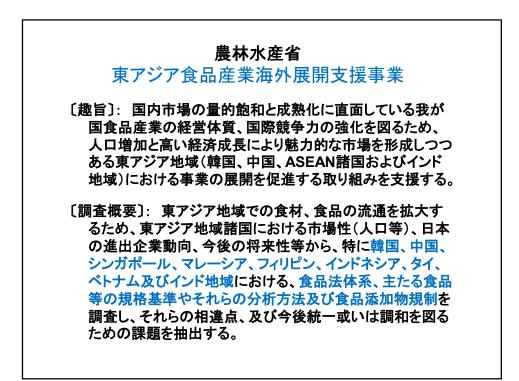




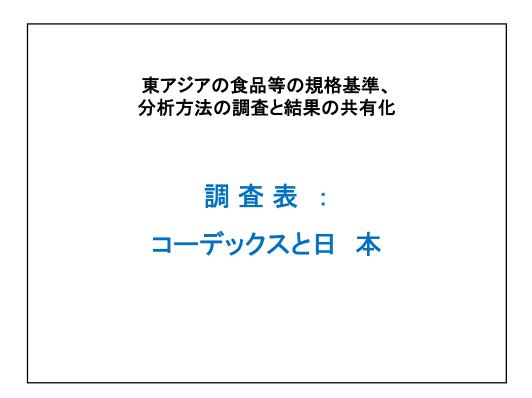


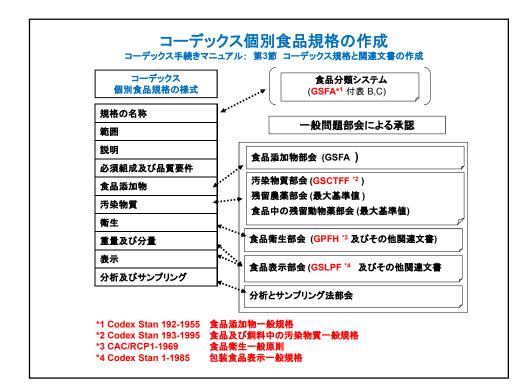
東アジア食品産業海外展開支援事業について

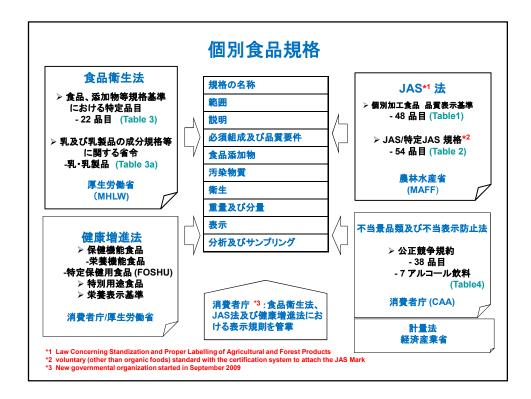


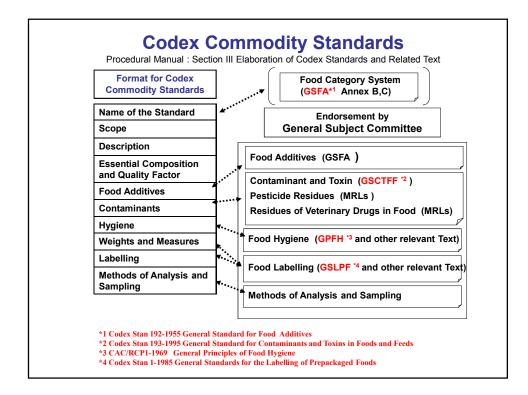


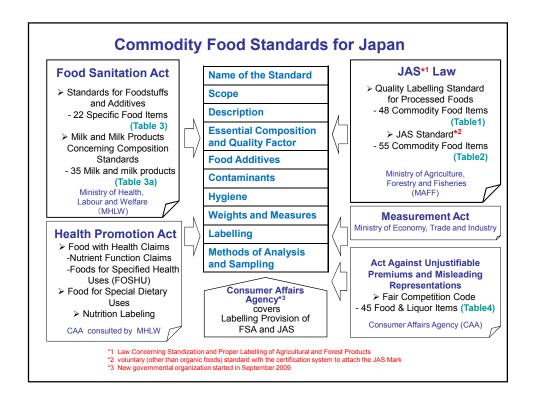


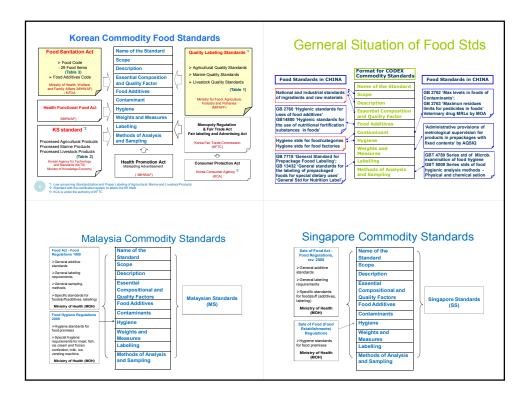


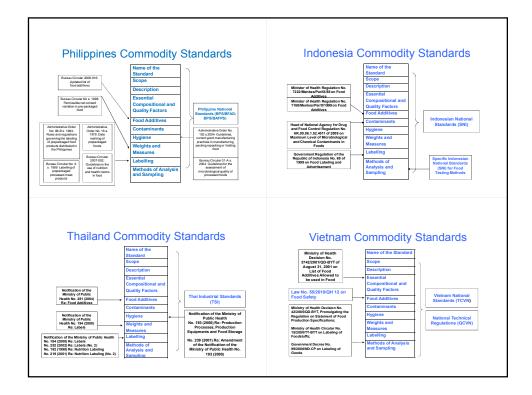








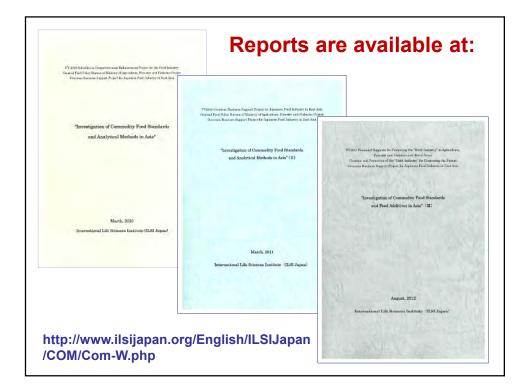


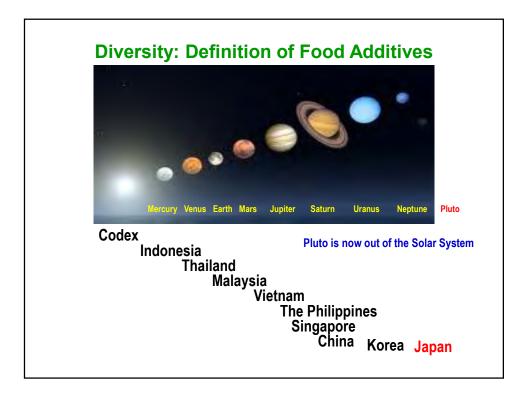


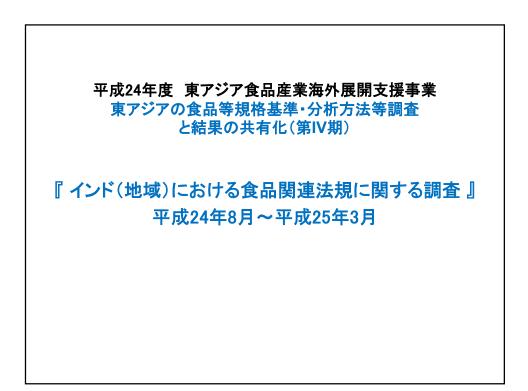


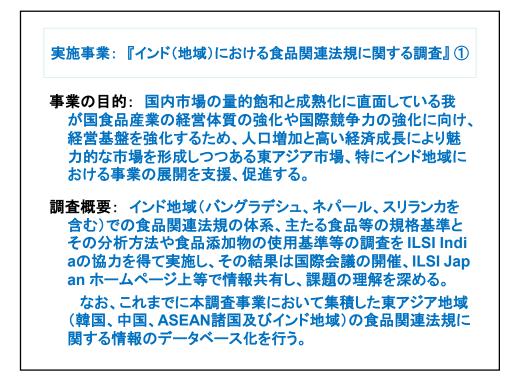




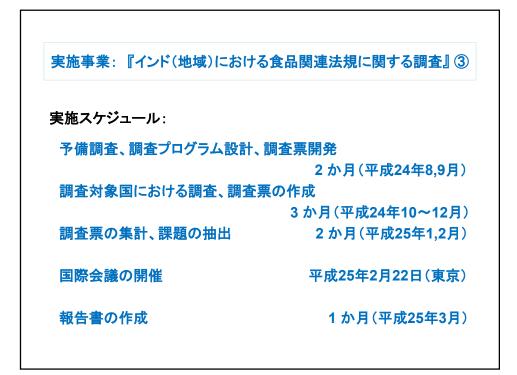


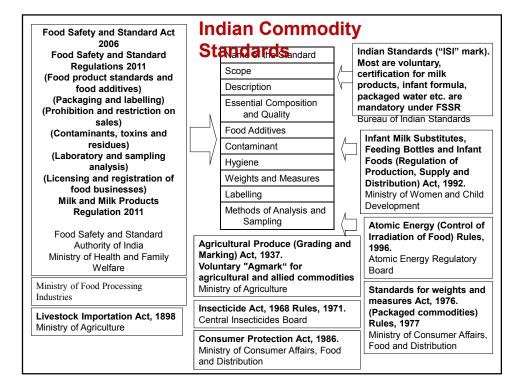






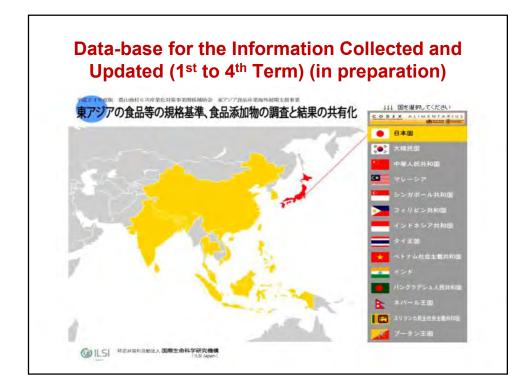
実施事業: 『1	インド(地域)における食品	関連法規に関する調査』②	
ILSI Japan の一組織である「国際協力委員会」内に調査対象と するそれぞれの専門分野(インド市場、食品規格基準、分析方法、 食品添加物等)を担当する会員からなるプロジェクトチームを立 ち上げ、各ILSI 支部(インド及び韓国、中国、東南アジア地域)と 協力し、調査事業を進める。			
実施主体	ILSI 支部	担 当 国	
	ILSI インド支部	インド(バングラデシュ、ネ パール、スリランカを含む)	
ILSI Japan	ILSI 韓国支部	韓国	
(日本及びコー デックスを担当、	ILSI 中国連絡事務所	中国(香港、台湾を除く)	
テックスを担当、 調査全体の統 括)	ILSI 東南アジア地域支部	マレーシア、シンガポール、 フィリピン、インドネシア、タイ、 ベトナム(ASEAN 諸国の内 主要6か国)	

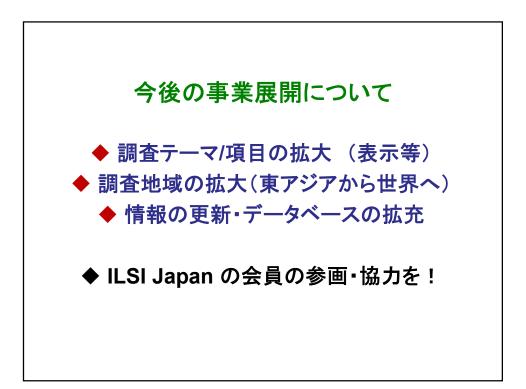




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インド、バングラデシュ、ネパール、スリランカにおける 食品及び食品添加物の法的枠組みと事例研究	
10:00-10:15 開会の挨拶	木村 修一(ILSI Japan会長)
Session 1:	-
10:15-10:40 農林水産省ご挨拶:	
大臣官房参事官 農林水産省 食料	 産業局 海外展開・輸出促進グループ長 小川良介
10:40-11:15 基調講演:	
	ctor, Food Safety and Standards Authority of India
11:15-11:55 農林水産省東アジア食品産業	海外展開支援事業及びILSIの紹介
	浜野弘昭、山口隆司 (ILSI Japan)
12:00-13:00 昼 食	
Session 2:	
13:00-13:40 インドにおける食品及び食品湯	&加物の法的枠組み 香村正徳(味の素㈱)
13:40-14:10 バングラデシュ、ネパール、ス	リランカにおける食品及び食品添加物の法的枠組
	Ms. Rekha Sinha (ILSI India 事務局長)
14:10-14:50 アセアン(ASEAN)における食	品基準のハーモナイゼーション
	Mr. Teoh Keng Ngee (ILSI SEAR)
14:50-15:10 休 憩	
Session 3:	
15:10-15:30 インドにおける加工食品及び	次料市場について
	Mr. D.H. Pai Panandiker (ILSI India会長)
15:30-16:00 事例研究1:	味の素糊
16:00-16:30 事例研究 2:	(㈱ヤクルト本社
16:30-16:55 質疑応答及び総合討論	
16:55-17:00 閉会の挨拶	山口隆司(ILSI Japan事務局長)



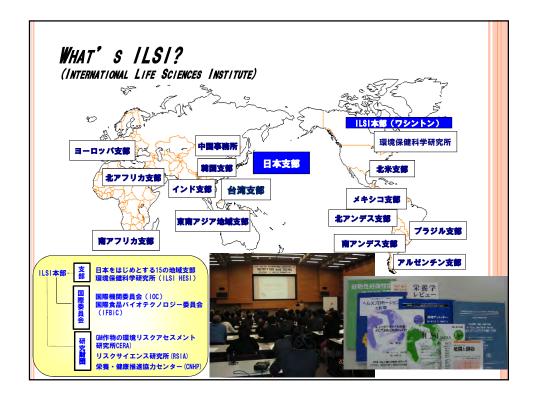


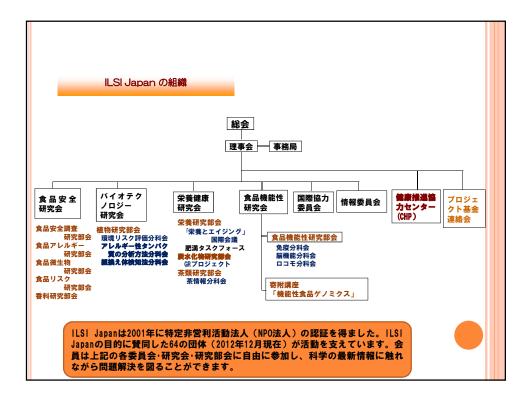
国際生命科学研究機構(ILSI)について

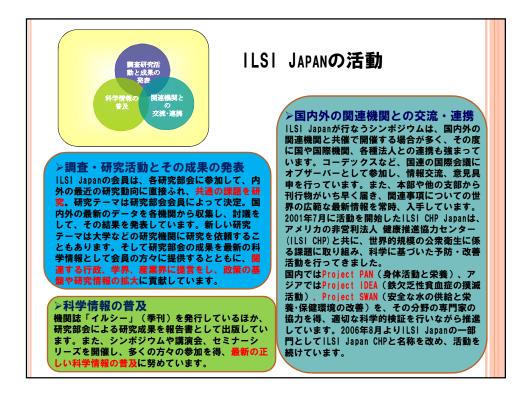




JAPAN	64	
Europe	63	LS の会員数は460社(2012年
(HESI)	(47)	度)にも及び、世界規模で活動
North Andean	46	しています。長期間の研究を要
Brasil	34	する基礎的な課題は主として研
North America	34	究財団の各研究所が担当します。
Focal point in China	30	各研究所では、それぞれの分野 における科学者の協力を得て、
Southeast Asia Region	30	グローバルな視点から研究テー
Korea	27	マを決め、世界的に優れた科学
India	27	者に研究を委託します。また、
Mexico	21	地域に特有な課題への対応は世
Argentina	14	界に広がる地域支部が担当して
South Africa	8	います。
South Andean	8	LS ホームページ
North Africa	7	http://www.ilsi.org/
TOTAL	460 (413)	











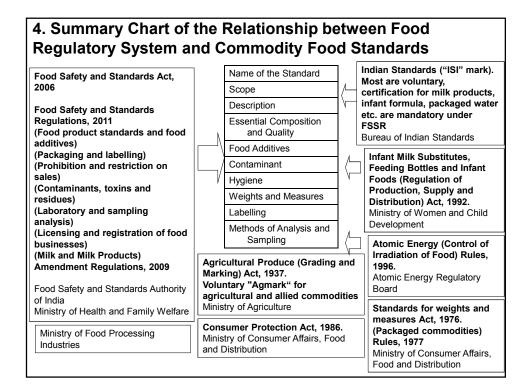
Administrative body	Responsible agency	Related laws
Ministries of	-	
Health and Family Welfare	Food Safety and Standards Authority of India (FSSAI)	Food Safety and Standards Act, 2006
		 Food Safety and Standards Regulations, 2011
		Food Safety and Standards Rules, 2011
	Bureau of Indian	The Bureau of Indian Standards Act, 1986
Consumer Affairs, Food and Public Distribution		 The Standards for Weights and Measures Act, 1976
	Standards (BIS)	The Standards for Weights and Measures Rules, 1977
Women and Child Development		 The Infant Milk Substitutes, Feeding Bottles and Infa Food (Regulation of Production, Supply and Distributio Act, 1992 as Amended in 2003
		Agricultural Produce (Grading and Marking) Act, 1937
Agriculture		The General Grading and Marking Rules, 1988
Food Processing Industries		
Atomic Energy Commission	DAE	The Atomic Energy Act, 1962
	AERB	 Atomic Energy (Control of irradiation of Food) Rules, 199

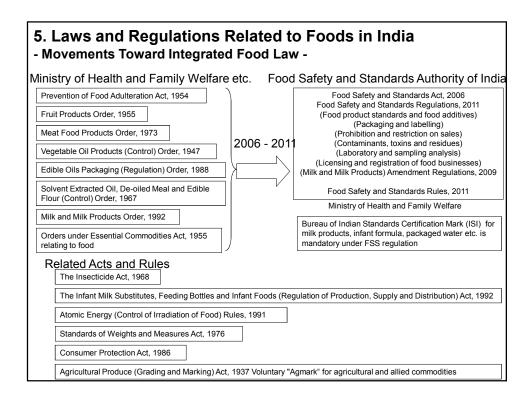
2. Food Safety and Standards Authority of India (FSSAI)

Roles of Food Safety and Standards Authority of India

- 1. Framing of regulations to lay down the standards and guidelines for food (食品の規格やガイドラインを制定するための規則の骨組みを作る).
- Laying down mechanisms and guidelines for accreditation of certification bodies engaged in certification of food safety management system for food businesses (食品ビジネスの食品安全マネジメントシステムの認証に携わる認 証機関認定のための仕組みとガイドラインを制定する).
- 3. Laying down procedure and guidelines for accreditation of laboratories and notification of the accredited laboratories (研究施設の認定と認定された研究施設の届出に関する手順とガイドラインを制定する).
- 4. To provide scientific advice and technical support to Central Government and State Governments in the matters of framing the policy and rules in areas which have a direct or indirect bearing of food safety and nutrition (中央政府や州政府が、食品の安全と栄養に直接的あるいは間接的に関わる分野の指 針や規則を立案するにあたっての科学的アドバイスや技術的サポートを行なう).
- 5. Contribute to the development of International technical standards for food(食品の国際的技術基準の発展に貢献する).
- Promote general awareness about food safety and food standards(食品安 全や食品基準についての一般の認識を高める).

. Organization Structure of FSSAI Food Safety and Standards Authority of India (24 Members) Chairman, CEO, 7 Joint Secretaries from Ministries Representatives of Industries, Consumer Organization, Food Technologists/Scientists, States, Farmers' Organizations, Retailer's organizations				
Central Advisory Committee Scientific Committee Scientific Panels				
The committee aims at enhancing the cooperative relation between Food Authority and related bodies and consists of following members. • Chief Executive Officer • Representatives of all industries (two members each to represent food industry, agriculture, consumer bodies and food laboratories) • All commissioners from each State Food Safety Authority	The committee consists of Chairpersons of 8 sections of Scientific Panel and 6 independent academic experts who do not belong to Scientific Panel. The Committee provides Authority with advice and Scientific Panel with orders for activities from scientific standpoints. When there are problems which Scientific Panel cannot process alone, the committee can order the establishment of the working team.	Scientific Panels consist of independent academic experts, as necessary, invites related industries and representatives of consumers as members of the organization. The following 8 sections are included in Scientific Panels. a) Functional foods, nutraceuticals, dietetic products and other similar products b) Method of sampling and analysis c) Food additives, flavorings, processing aids and materials in contact with food d) Contaminants in the food chain e) Biological hazards f) Pesticides and antibiotics residues g) Labeling and claims/advertisements h) Genetically modified organisms and foods		





6. Food Safety and Standards (FSS) Act, 2006

- 1. Establishment of Food Safety and Standards Authority of India (composition, functions, procedure and duties)
- 2. General principles of food safety (not only the protection of human health, but also the protection of consumers' benefit including fair food transaction, appropriate risk management based on scientific reasons and preventive measures at appropriate level are set forth)
- 3. General provisions as to articles of food
 - a. Use of food additive or processing aid
 - b. Contaminants, naturally occurring toxic substances, heavy metals, etc.
 - c. Pesticides, veterinary drugs residues, antibiotic residues and microbiological counts
 - d. Genetically modified foods, organic foods, functional foods, proprietary foods, etc

- e. Packaging and labeling of foods
- f. Restrictions of advertisement and prohibition as to unfair trade practices
- 4. Provisions relating to import
- 5. Special responsibilities as to food safety (responsibilities of the food business operators, food recall procedure)
- 6. Analysis of food (laboratories, auditors, analysts, procedure)
- 7. Implementing sectors and their administrations, penalties, appeal organizations

E	xample Provisions of the FSS Act, 2006
3	. Definitions.
4	. Establishment of FSSAI.
	. Composition of FA and qualifications for appointment of its Chairperson nd other Members.
	. Selection Committee for selection of Chairperson and Members of FA. 1. Central Advisory Committee.
1	3. Scientific Panels.
14	4. Scientific Committee.
1	5. Procedure for Scientific Committee and Scientific Panel.
1	9. Use of food additive or processing aid.
2	0. Contaminants, naturally occurring toxic substances, heavy metals, etc
	 Pesticides, veterinary drugs residues, antibiotic residues and nicrobiological counts.
2	2. Genetically modified foods, organic foods, functional foods, proprietary
fc	oods, etc.
2	3. Packaging and labelling of foods.
2	4. Restrictions of advertisement and prohibition as to unfair trade practices
2	5. All imports of articles of food to be subject to this Act.
e	tc

 FSS Regulations, 2011 Food product standards and food additives Packaging and labelling Prohibition and restriction on sales Contaminants toxins and residues Laboratory and sampling analysis Licensing and registration of food businesses Enforced after 5th Aug 2011 Amendment Regulations, 2009 Milk and Milk Products 	FSS Rules, 2011 Example 2.1 - Qualification and duties 2.1.1: Commissioner of Food Safety (State Gov.) 2.1.2: Designated Officer 2.1.3: Food Safety Officer 2.1.4: Food Analyst Enforced after 5th Aug 2011
 Draft Regulations Food Authority's Food Recall Procedures Food for Special Nutritional or Dietary Uses Revised Energy Drinks, and Caffeine Revised Trans Fatty Acids in Partially Hydrogena Food import Operationalizing the Regulation of GM Foods in I Labeling (claims) 	-

1. Definition of Food additive.

CHAPTER I, Article 3 of the FSS Act, 2006

(k) "food additive" means any substance not normally consumed as a food by itself or used as a typical ingredient of the food, whether or not it has nutritive value, the intentional addition of which to food for a technological (including organoleptic) purpose in the manufacture, processing, preparation, treatment, packing, packaging, transport or holding of such food results, or may be reasonably expected to result (directly or indirectly), in it or its by-products becoming a component of or otherwise affecting the characteristics of such food but does not include "contaminants" or substances added to food for maintaining or improving nutritional qualities;

2. Functional Classes

Article 2.2.2, 5 Declaration regarding Food Additives of FSS (Packaging and labeling) Regulations, 2011.

(i) For food additives falling in the respective classes and appearing in lists of food additives permitted for use in foods generally, the following class titles shall be used together with the specific names or recognized international numerical identifications: Acidity Regulator, Acids, Anticaking Agent, Antifoaming Agent, Antioxidant, Bulking Agent, Colour, Colour Retention Agent, Emulsifier, Emulsifying Salt, Firming Agent, Flour Treatment Agent, Flavour Enhancer, Foaming Agent, Gelling Agent, Glazing Agent, Humectant, Preservative, Propellant, Raising Agent, Stabilizer, Sweetener, Thickener:

8. Regulations on Food Additive

Chapter 3:SUBSTANCES ADDED TO FOOD in the FSS (Food Product Standards and Food Additives) Regulations, 2011.

Colouring Matter, Artificial Sweeteners, Preservatives, Anti-oxidants, Emulsifying agents, Stabilising agents, Anticaking Agents, Antifoaming agents in edible oils and fats, Release agents, Flavouring Agents, Flavour Enhancers, Sequestering Agents and Buffering Agents

3. Definition of Processing aid

Article 19. Use of food additive or processing aid of the FSS Act, 2006 Explanation.- For the purposes of this section, "processing aid" means any substance or material, not including apparatus or utensils, and not consumed as a food ingredient by itself, used in the processing of raw materials, foods or its ingredients to fulfill a certain technological purpose during treatment or processing and which may result in the nonintentional but unavoidable presence of residues or derivatives in the final product.

8. Regulations on Food Additive

4. Approved Food Additives and its Use Standards

Article 19. Use of food additive or processing aid of the FSS Act, 2006 No article of food shall contain any food additive or processing aid unless it is in accordance with the provisions of this Act and regulations made thereunder.

Article 3.1.1:1) of the FSS (Food Product Standards and Food Additives) Regulations, 2011. Use of Food Additives in Food Products:

The food products may contain food additives as specified in these Regulations and in Appendix A.

Appendix A consists of 15 tables of lists of food additives for use in food categories and a list of food categories with permitted food additives.

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5. Food Additive Specifications

Article 3.2 of the FSS (Food Product Standards and Food Additives)
Regulations, 2011. Standards of Additives
2.8: Sweetening agents including Honey. Specifications for 4 Artificial Sweeteners.
3.2.1: Food Colours. Specifications for 15 food coulors.

Bureau of Indian Standards (BIS) set standards for 91 food additives. In the current regulatory frame work, BIS certification is voluntary, however, importer of specific food additives shall register to BIS.



8. Regulations on Food Additive

6. New Food Additive Approval

There is no clear description on approval process for new food additive or revision of use level or food category in the FSS regulations.

However, application format and summary sheet for approval of food additives was announced by the Scientific Panel on Food Additives, flavouring, processing aids and materials in contact with food on April 4th, 2012. It stated that "Applicants should apply for the approval of food additives/enhancement of permitted food additives in other food products as well as increase the existing quantity of permitted food additives in the food product in the enclosed prescribed format. The application should be addressed to Director (PA), Food Safety and Standards Authority of India"

7. Labeling of Food Additives Used in Foods

Article 2.2.2: Labeling of Pre-packaged Food of FSS (Packaging and labeling) Regulations, 2011.

2. List of Ingredients, (d) Where an ingredient itself is the product of two or more ingredients, such a compound ingredients shall be declared in the list of ingredients, and shall be accompanied by a list, in brackets, of its ingredients in descending order of weight or volume, as the case may be: Provided that where a compound ingredient, constitutes less than five percent of the food, the list of ingredients of the compound ingredient, other than food additive, need not to be declared;

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8. Regulations on Food Additive

7. Labeling of Food Additives Used in Foods (2)

Article 2.2.2: Labeling of Pre-packaged Food of FSS (Packaging and labeling) Regulations, 2011.

5. Declaration regarding Food Additives, (i) For food additives falling in the respective classes and appearing in lists of food additives permitted for use in foods generally, the following class titles shall be used together with the specific names or recognized international numerical identifications.

In addition, there are many specific labelling requirements relates to food additives

8. Carry Over Of Food Additives

Article 3.1.18 of the FSS (Food product standards and Food Additives) Regulation, 2011, **Carry Over of Food Additive**.

For the purpose of the standards specified in chapter 2 of these regulation the "Carry Over" principle applies to the presence of additives such as colours, flavouring agents, anti-oxidants anti-caking agents, emulsifying and stabilising agents, and preservatives in food, as a result of the use of raw material or other ingredients in which these additives were used. The presence of contaminants is not covered by this purpose. The presence of an additive in food through the application of the carry over principle is admissible in general unless otherwise specifically prohibited in the regulations provided the total additive including the carry over through the raw material or other ingredients does not exceed the maximum amount so permitted.

9. Case Study

1. Instant Noodles

There is no food standard for "instant noodles" in both FSS (Food product standards and Food Additives) Regulations, 2011 and Indian Standards. Instant Noodles shall comply with the requirements set on "2.12: Proprietary Food" in FSS (Food product standards and Food Additives) Regulations, 2011.

	Food Safety and Standards Regulations 2011	Indian
		Standards
Scope,	FSS (Food product standards and Food Additives)	
Description,	regulation, 2011	
Essential	2.12: Proprietary Food	
Composition and		
Quality Factor		
Labeling	FSS (Packaging and Labeling) regulation, 2011	
	2.2: Labeling	
	2.2.1:General Requirements	
	2.2.2:Labelling of Pre-packaged Food	
Food Additives	FSS (Food product standards and Food Additives)	
	regulation, 2011	
	3.1: Food Additives	
Contaminant	FSS (Contaminants, Toxins and Residues) regulation, 2011	
	2.1: Metal Contaminants, 2.2: Crop contaminants and	
	naturally occurring toxic substances	
Hygiene		20

FSS (Food product standards and food additives) Regulations, 2011

2.12: Proprietary Food

2.12.1

1) Proprietary food means a food that has not been standardized under these regulations

2) In addition to the provisions including labelling requirements specified under these regulations, the proprietary foods shall also conform to the following requirements, namely:—

(i) the name describing as clearly as possible, the nature or composition of food and/or category of the food under which it falls in these regulations shall be mentioned on the label

(ii) the proprietary food product shall comply with all other regulatory provisions specified in these regulations and in Appendices A and B.

Veg and Non-Veg

1.2: Definitions—1.2.1: In these regulations unless the context otherwise requires: 7. "Non-Vegetarian Food" means an article of food which contains whole or part of any animal including birds, fresh water or marine animals or eggs or products of any animal origin, but excluding milk or milk products, as an ingredient;

11. "Vegetarian Food" means any article of Food other than Non- Vegetarian Food as defined in regulation 1.2.1 (7). $$_{\rm 21}$$

9. Case Study

2.2.2: Labelling of Pre-packaged Foods

- 4. Declaration regarding Veg or Non veg -
- (i) Every package of "Non Vegetarian" food shall bear a declaration to this effect made by a symbol and colour code as stipulated below to indicate that the product is Non-Vegetarian Food. The symbol shall consist of a brown colour filled circle having a diameter not less than the minimum size specified in the Table mentioned in the regulation 2.2.2 (4) (*iv*), inside a square with brown outline having sides double the diameter of the circle as indicated below:
- (ii) Where any article of food contains egg only as Non-Vegetarian ingredient, the manufacturer, or packer or seller may give declaration to this effect in addition to the said symbol.
- (iii) Every package of Vegetarian Food shall bear a declaration to this effect by a symbol and colour code as stipulated below for this purpose to indicate that the product is Vegetarian Food. The symbol shall consist of a green colour filled circle, having a diameter not less than the minimum size specified in the Table below, inside the square with green outline having size double the diameter of the circle, as indicated below:

product standar 2.3.30 Carbonar 2.10.6 Beverage There are two s Standards IS 2346-1992 C	-	
	Food Safety and Standards Regulations 2011	Indian Standards
Scope, Description, Essential Composition and Quality Factor Labeling	FSS (Food product standards and Food Additives) regulation, 2011 2.3.30: Carbonated Fruit Beverages or Fruit Drinks 2.10.6: Beverages Non-Alcoholic-Carbonated FSS (Packaging and Labeling) regulation, 2011	IS 2346-1992 Carbonated Beverages –Specification
	2.2: Labeling2.2.1:General Requirements2.2.2:Labelling of Pre-packaged Food	IS 12544 1988 Carbonated Beverages - Non-
Food Additives	FSS (Food product standards and Food Additives) regulation, 2011 3.1: Food Additives Appendix A:List of Food Additives	alcoholic Beer –Specification
Contaminant	FSS (Contaminants, Toxins and Residues) regulation, 2011 2.: Metal Contaminants, 2.2: Crop contaminants and naturally occurring toxic substances	
Hygiene	FSS (Food product standards and Food Additives) regulation, 2011 Appendix B:Microbilogical Requirements	23

 9. Case Study 2. Carbonated Soft D Method of Analysis : 				
Regulation applied	Item	Specification	Method of analysis	References
FSS (Food product	Arsenic	Max. 0.1 mg/kg		IS 11124 : 1984
standards and food additives) Regulation	Lead	Max. 0.5 mg/kg		IS 6854 : 1973
2011	Copper	Max. 1.5 mg/kg		IS 6854 : 1973
Carbonated beverage-	Iron	Max. 0.5 mg/kg		IS 6854 : 1973
Specification (IS 2346 : 1992 (reaffirmed 2009))	Total plate count	Not more than 50 cfu/ml		IS 5402 : 1969
	Coliform count	Absent in 100ml		IS 5401 : 1969
	Yeast and mold count	Not more than 2 cfu/ml		IS 5403 : 1969
	Saccharin	-	Volumetric method HPLC method	IS 2346 : 1992
	Gas volume	-		IS 2346 : 1992

2. Carbonated Soft Drinks

Sampling methods

Regulation applied	No. of Bottles in the	No. of Bottles to be selected		
	Production Lot	Microbiological tests	Other tests	
FSS (Food product standards and food additives) Regulation 2011 Carbonated beverage- Specification (IS 2346 : 1992 (reaffirmed 2009))	Up to 1,300	12	18	
	1,301 to 3,200	18	24	
	3,201 to above	24	30	
		1992 (Reaffirmed 200 ed for testing shall be o nber tables (see IS 49	chosen at random	

9. Case Study

3. Prepared Frozen Foods

There is no food standard for "Prepared Frozen Foods" in both FSS (Food product standards and food additives) Regulations, 2011 and Indian Standards. "Prepared Frozen Foods" shall comply with the requirements set on "2.12: Proprietary Food" in FSS (Food product standards and Food Additives) Regulations, 2011.

	Food Safety and Standards Regulations 2011	Indian Standards
Scope,	FSS (Food product standards and Food Additives)	
Description,	regulation, 2011	
Essential	2.12: Proprietary Food	
Composition and		
Quality Factor		
Labeling	FSS (Packaging and Labeling) regulation, 2011	
	2.2: Labeling	
	2.2.1:General Requirements	
	2.2.2:Labelling of Pre-packaged Food	
Food Additives	FSS (Food product standards and Food Additives)	
	regulation, 2011	
	3.1: Food Additives	
Contaminant	FSS (Contaminants, Toxins and Residues) regulation, 2011	
	2.1: Metal Contaminants, 2.2: Crop contaminants and	
	naturally occurring toxic substances	
Hygiene		26

9. Case Stu	dy						
4. Cow's Milk							
There is the star	There is the standard relevant to the "Cow's Milk" in FSS (Food product standards						
		t Standards					
	es) Regulations, 2011.						
	2.1.1 Milk						
There are two st	andards relevant to the "Cow's Milk" in Indian Standard	ls.					
IS 4238:1967 St	erilized Milk						
IS 13688:1999 F	Packaged Sterilized Milk						
	Food Safety and Standards Regulations 2011	Indian Standards					
Scope,	FSS (Food product standards and Food Additives) regulation, 2011	IS 4238-1967					
Description,	2.1: Dairy Products and Analogues	Specification for					
Essential	2.1.1: Milk	Sterilized Milk					
Composition and							
Quality Factor		IS 13688:1999					
Labeling	FSS (Packaging and Labeling) regulation, 2011	Packaged					
	2.2: Labeling	Pasteurized Milk					
	2.2.1:General Requirements	-Specification					
	2.2.2:Labelling of Pre-packaged Food						
Food Additives	FSS (Food product standards and Food Additives) regulation, 2011						
	3.1: Food Additives						
	Appendix A:List of Food Additives						
Table 14 List of Food Additives for use in Milk products Contaminants FSS (Contaminants, Toxins and Residues) regulation, 201							
Containinants	2.1: Metal Contaminants, 2.2: Crop contaminants and naturally						
	occurring toxic substances, 2.3: Residues						
Hygiene	FSS (Food product standards and Food Additives) regulation, 2011						
, 9.00	Appendix B:Microbilogical Requirements						
	Table 2 Microbiological Parameter for Milk products	27					

4. Cow's Milk

Sampling methods : Sterilized Milk

Containers in the Production LotBacterial sporesCreaming index, Turbidity and SteriliFSS (Food product standards and Food Additives) regulation s, 2011Up to 2511Specification for Sterilized Milk (IS 4238 : 1967 (reaffirmed 2010))Up to 5037501 to 1,00039111,001 to 5,00041115,001 to above4131References : IS 4238 : 1967 (Reaffirmed 2010) Appendix F	Regulation applied	No. of	No. of Containers to be selected		
and Food Additives) regulation s, 2011 26 to 100 2 5 Specification for Sterilized Milk (IS 4238 : 1967 (reaffirmed 2010)) 101 to 500 3 7 1,001 to 5,000 4 11 5,001 to above 4 13		the Production	Bacterial spores	Creaming index, Turbidity and Sterility	
2011 26 to 100 2 5 Specification for Sterilized Milk (IS 4238 : 1967 (reaffirmed 2010)) 101 to 500 3 7 101 to 5,000 3 9 9 1,001 to 5,000 4 11 5,001 to above 4 13	nd Food Additives) regulation s,	Up to 25	1	1	
Specification for Sterilized Milk (IS 4238 : 1967 (reaffirmed 2010)) 101 to 500 3 7 1,001 to 5,000 3 9 1,001 to 5,000 4 11 5,001 to above 4 13 13		26 to 100	2	5	
2010)) 1,001 to 5,000 4 11 5,001 to above 4 13		101 to 500	3	7	
1,001 to 5,000 4 11 5,001 to above 4 13	•	501 to 1,000	3	9	
	510//	1,001 to 5,000	4	11	
References : IS 4238 : 1967 (Reaffirmed 2010) Appendix F		5,001 to above	4	13	
(Sampling of Sterilized Milk)					

4. Cow's Milk

Method of Analysis : Sterilized Milk

Regulation applied	Item	Specification	Method of analysis	References
FSS (Food product standards and Food	Creaming index	Max. 20	Centrifug ation	IS 4238 : 1967 (Reaffirmed 2010)
Additives) Regulations, 2011 Specification for Sterilized	Turbidity test	To conform to test		IS 4238 : 1967 (Reaffirmed 2010)
Milk (IS 4238 : 1967 (reaffirmed 2010))	Sterility (a)	pH variation on 7days incubation : Max 0.3		IS 4238 : 1967 (Reaffirmed 2010)
	Sterility (b)	Titratable acidity variation on 7 days incubation : Max. 0.02 g	Titration	IS 4238 : 1967 (Reaffirmed 2010)
	Bacterial Spores - aerobic	Max. 5 colonies / ml		IS 4238 : 1967 (Reaffirmed 2010)



Thank you for your kind attention

スリランカ、バングラデシュ、ネパールにおける食品及び食品添加物の法的枠組み

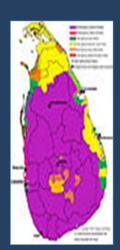




Country Fact Sheet SRI LANKA



- Sri Lanka is an Island in the <u>Indian</u> <u>Ocean</u>, off the south-eastern coast of India. It is about the size of Ireland. It is about 28 kilometers (18 mi.)
- Population is about 20 million. The <u>Sinhalese</u>, make up 74.9% of the population . <u>Tamils</u> are 15.4% . Most Sinhalese are <u>Buddhist</u>; most Tamils are <u>Hindu</u>.
- Official Languages: Sinhala and Tamil.



Administrative Authorities

Administrative Authorities in Sri Lanka as shown in the following Table are responsible for Food Administration of food categories and related stage of production.

Sector	Products	Imported	Domestic
Ministry Of Health/ Directorate General of Health Services	Food Products	Food Control Administration of *MoH (FCA)	FCA
Ministry/Department of Agriculture (MOA)	Primary products of agriculture	Food Control Administration of *MoH (FCA)	MOA and FCA
Department of Animal Production & Health (DAP &H)	Animal Husbandry Milk Products	DAP&H and FCA	DAP&H and FCA
Coconut Development Authority (CDA)	Coconuts & Their Products	FCA and CDA	FCA and CDA
Tea Board (TB)	Manufactured Tea	FCA and TB	FCA and TB
Ministry/Department of Fisheries (MDF)	Fish and Fish Related Products	FCA	MDF and FCA
Excise Department (ED)	Alcoholic Beverages	ED/Customs	ED
Ministry of Local Government (MoLG)	General Food Safety and Standards (implementation)		
Sri Lanka Standards Institution (SLSI) Established Under Sri Lanka Standards Institution Act No. 6 of 1984.	Formulation Of Voluntary & Mandatory Standards General National Standards Of Consumer And Industrial Products Including Food	SLSI	FCA and SLSI
Consumer Affairs Authority (CAA) Established Under the Consumer Affairs Authority Act No. 9 of 2003	Promotion of Effective Completion and Protection of Consumers: Regulation Of Internal Trade	FCA	CAA



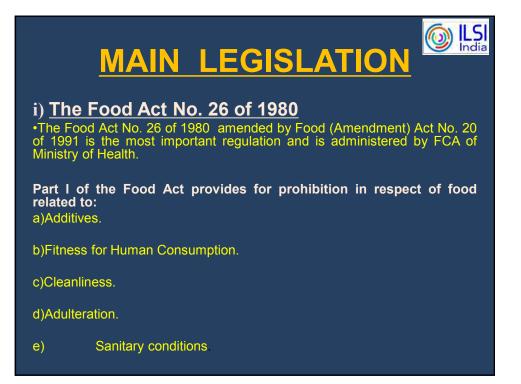
Director General of Health Services

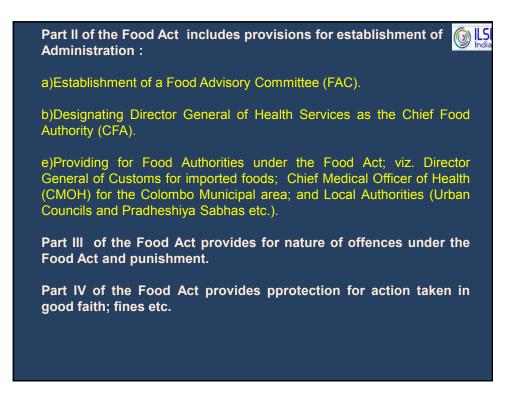
The Chief Food Authority is Director General of Health Services under Ministry of Health. It is the apex body responsible for the country's Food Control Administration (FCA). The Food Advisory Committee recommends the standards and regulations to be adopted by the Government.

Sri Lanka Standards Institute

Sri Lanka Standards institute (SLSI) plays an integral role with the FCA and in formulation of National Standards under the Food Act. The Standards of the SLSI are mostly voluntary. Some of them are declared mandatory for verification of standard parameters at the point of import.

The SLSI has mutual agreements with standards setting bodies of the exporting countries that certify the products exported from selected countries. Based on the certification of those bodies and verification checks carried out at national level the SLSI releases those products for further inspection and verification of FCA as far as food products are concerned







ii) <u>Regulations have been made Under Section 32 Of</u> The Food Act

1)Miscellaneous Regulation 2)Hygiene 3)Food Standards 4)Non-nutritive sweeteners 5)Milk Standards 6)Additional Approved Analyst Regulations 7) lodization of Salt 8)Microbiological Analyst 9)Labeling & Miscellaneous 10)Preservatives 11) Genetically Modified Foods 12) Bread Standards 13) Food (Labeling & Advertising) Regulation - 2005 14) Irradiation 15) Coloring Substances 16) Bottled or Package Water

- 17) Adoption of SL Standards
- 18)Antioxidants





Laws and Regulations Related to **Food Additives**

OVERVIEW

According to Food Additives (General) Regulations yet to be published (currently in draft form) "Food additive" means any safe substance that is intentionally introduced into in a food in small quantities.

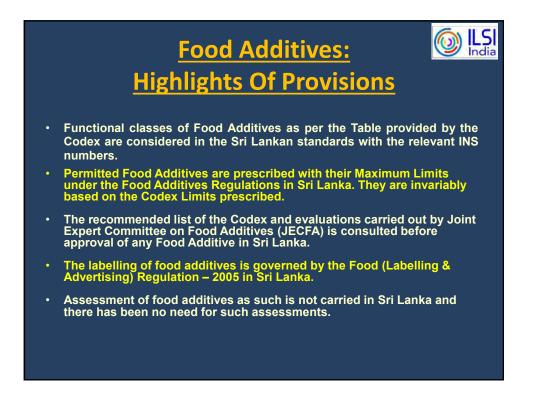
•Food Additives can be used to affect the food's keeping quality, texture, consistency, appearance, odour, taste, alkalinity or acidity or to serve any other technological function.

They include :

≻Preservative,

- ≻Coloring Substance,
- Flavouring Substance,
 Flavour Enhancer
- ≻Antioxidant,
- >Emulsifying And Stabilizing Agent,
- Sweetener And Food Conditioner,

But do not include nutrient supplement, incidental constituent or common salt.



	FLAN <u>As Per Draft Flav</u>	/ORS vor Regula	ations	
<u>CA</u>	TEGORIES	Negative List of Flavors		
		i.	Aloin.	
		ii.	Beberine.	
i.	"Natural Aromatic Raw	iii.	Beta- Azarone.	
1.	Material'	iv.	Cade oil.	
	inatorial	v.	Calamus oil.	
ii.	"Natural Flavouring	vi.	Coumarin and dihydrocoumarin.	
	Concentrate"	vii.	Diethylene glycol.	
		viii.	Monoethyl ether.	
iii.	"Natural Flavouring	ix.	Ethyl Methyl Ketone.	
	Substance"	х.	Ethyl-3-Phenylglicidate.	
		xi.	Eugeny methyl ether.	
iv.	"Nature-Identical Flavouring	xii.	Methyl Napthyl ketone.	
	Substance"	xiii.	Saffrole and Isosaffrole.	
		xiv.	Santonin.	
٧.	"Artificial Flavouring	xv.	Sassafras oil.	
	Substance"	xvi.	Thujone, Isothujone, alpha and betathujone.	
		xvii.	Tonka bean.	



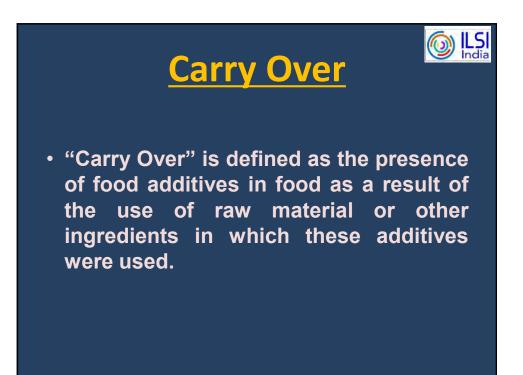


Processing Aids

Currently NO Regulation is in place.

The Inventory of Processing Aids compiled and adopted by the Codex Alimentarius Commission is consulted.

- •The inventory contains the following:
- •Category functional effect classification.
- •Processing Aid the chemical name and description of the
- substance used.
- •Area of Utilization.
- •Level of Residues.
- •Interaction with food.
- •JECFA evaluation.





Permitted Preservative	INS No.	Alternative form in which the permitted preservative may be used (to be calculated as the permitted preservative shown in Column I)	INS No.
1. Sorbic acid	200	Sodium sorbate	201
		Potassium sorbate	202
		Calcium sorbate	203
2 . Benzoic acid	210	Sodium benzoate	211
		Potassium benzoate	212
		Calcium benzoate	213
Sulphur dioxide	220	Sodium sulphite	221
		Sodium hydrogen sulphite	222
		Sodium metabisulphite	223
		Potassium metabisulphite	224
		Potassium sulphite	225
		Potassium hydrogen sulphite	228
		Calcium sulphite	226
		Calcium hydrogen sulphite	227
4. Biphenyl, Diphenyl	230		
5. Orthophenylphenol	231	Sodium orthophenylphenate	232
6. Nisin	234		
7. Potassium nitrite	249		
8. Sodium nitrite	250		
9. Sodium nitrate	251		
10.Potassium nitrate	252		
11Propionic acid	280	Sodium propionate	281
		Calcium propionate	282
		Potassium propionate	283



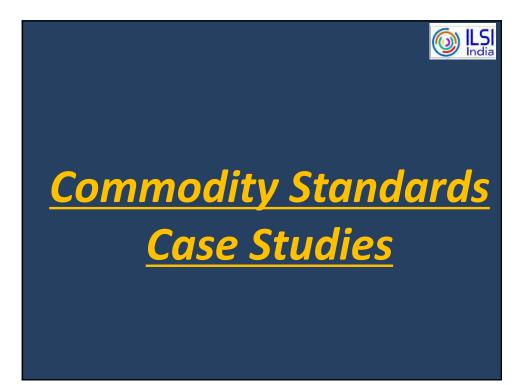
Schedule II provides list of articles of Food which may contain Permitted Preservative and the Nature and Quantity of the Permitted Preservative in each case.

		Permitted (ILSI India
		A. Synthetic		
	<u>As Per</u>	Coloring Substa	inces Regulatio	<u>ns</u>
	Co lo r	Common Manag	Coloridad	
	Color	Common Name	Color Index	INS Number
	Red	Carmosine	14720	122
		Ponceau 4R	16255	124
		Erythrosine	45430	127
	Yellow	Sunset Yellow FCF	15985	110
		Tartrazine	19140	102
	Blue	Indigo Carmine	73015	132
		Brilliant Blue FCF	42090	133
	Green	Green S	44090	142
Synthe	tic dyes specified in	Table 1 shall conform to t	he following standard-	
Pure d	ye minimum		85.0%	
Water	insoluble matter max	kimum	0.1%	
Subsid	iary dye maximum		4.0%	
Ether e	extractable matter ma	aximum	0.2%	
Interm	ediates maximum		0.5%	



B. Other Permitted Coloring Substances <u>As Per Coloring Substances Regulations</u>

INS Number	Natural coloring substance	Color index
100	Curcumin	75300
120	Cochineal (Carminic Acid)	75470
140	Chlorophyl	75810
150b	Caramel	
160a	Carotenes (alpha, beta or gamma)	75130
160b	Annato	75120
160c	Capsanthin or capsorubin	
160d	Lycopene	75125
160e	Beta-apo-8' – cartenal carteonic acid	
161a	Flavoxanthin	75135
162	Beetroot red (betanin)	
163	Anthocyanins	
171	Titanium dioxide	77891



1. Instant Noodles

() ILS

- There is no standard for Instant noodles under the Food Act – this is not even considered as a possibility in the near future. SLSI is preparing draft standards. The texts are not yet available.
- Reference can only be given to CODEX STAN 249-2006 which would be taken into consideration as a benchmark standard if and when such a standards framed.







The draft SLS 183 prescribes the requirements and methods of sampling and testing for carbonated beverages and formulated caffeinated beverages. There are detailed requirements for ingredients to be used, flavors, preservatives, labeling, packaging, sampling and maintaining requirements for hygiene.

It allow:

≻Non-nutritive sweeteners:

Aspartame	-600 mg/l(max)
Acesulfame-I	-350 mg/l(max)
Sucralose	-300 mg/l(max)
Neotame	- 20 mg/l(max)

>Caffeine in Carbonated Beverages: 150 mg/l when tested in accordance with the method prescribed in AOA 979.08.

Caffeine in Formulated Caffeinated Beverage: Not less than 100 mg/l when tested in accordance with the method prescribed in **AOA 979.08**.





ILSI India

3. Prepared Frozen Foods

No standards relating to prepared frozen foods either under the Food Act or under the SLSI has been prepared and published so far.



1. Milk/Liquid Milk	8.	Ultra Heat Treated Milk
2. Raw Or Fresh Liquid Milk	9.	Flavored Milk
3. Standardized Milk	10.	Recombined Milk
4. Semi-skimmed Milk Or	11.	Reconstituted Milk
Low Fat Milk	12.	Reconstituted Skimmed Milk
5. Skimmed Milk Or Non Fat	13.	Toned Milk
Milk	14.	Lactose Hydrolyzed Milk
6. Pasteurized Milk		
7. Sterilized Milk		

Shelf Life of Imported Food Items Under Food Act

ILSI India

- The Regulation specifies that all items of food imported into Sri Lanka shall at the point of entry into Sri Lanka, possess a minimum period of sixty per centum (60%) of unexpired shelf life.
- Provided that the shelf life period specified above, shall not be enforced in respect of imported fresh fruits and vegetables and potatoes which have not been peeled or cut.
- The period of shelf life of an item of imported food shall be determined on the basis of the date of manufacture and the date of expiry as declared by the manufacturer of the product and which is depicted on the label attached thereto
- For the purposes of these regulations, the expression "end of shelf life" shall be identified by the use of the words "date of expiry", "best before", "use by" or "use before" or other similar words which convey this meaning and which are used by a manufacturer of any food item being imported into Sri Lanka.
- For the purpose of these regulations "shelf life" means the period of time between the date
 of manufacture and its usability by the consumer, during which time the product is safe for
 human consumption and is of satisfactory quality in terms of nutritional value, flavor, texture
 and appearance.









<u>SI.</u> No	Ministry	Department/Organization	Major activities
1.	Ministry of Agriculture	Plant Protection Wing, DAE	Phyto Sanitary certificate for Import/Exported plants/plant products Pesticide Use Control Fertilizer Use Control
2.	Ministry of Food	Directorate General of Food (DGF)	 Quality Control of PFDS, Stock, Procured Food grains/Food Stuff, Imported food etc. Food Control in the Market (not doing at present)
3.	Ministry of Health & Family Welfare	Directorate General of Health; District & Upazila Health Administration and Institute of Public Health.	Food Quality and Sanitation Control in Upazila/District level Testing
4.	Ministry of LGRD	City Corporation & Pourashava Health Units	Have Sanitary Inspector, Labs and Public Analyst for food quality control in their command areas.
5.	5. Ministry of Fisheries & Livestock	A) Department of Fisheries (FIQC Wing)	 Fish Quality Control & Certification for export Same for the domestic market
		B) Department of Livestock	Animal Health Animal Product Imported Animal
6.	Ministry of Industries	BSTI	 Frame Standards of Food Products Testing & Certification Marks and Surveillance.
7.	 Ministry of Science, Information and Communication Technology 	BAEC	Test Radiation level of Imported Food items; Pesticides Residues
		IFST, BCSIR	Testing of Food Items; Research and Development
8.	Ministry of Education	DG, Primary, DG, Secondary, Text Book Board, Universities	Food safety, Nutrition & Environmental issues in the text book of all level of education
9.	Ministry of Information	PIB BTV Radio Bangladesh	Broad cast issues for awareness building
10.	Ministry of Home	Bangladesh Police	Assist the Inspection Agencies
11.	Ministry of Law, Justice & Parliamentary Affairs		Formulation, Vetting, Parliamentary Approval etc.



Major Laws & Regulations

There are several laws in Bangladesh for maintaining health and safety standards but there are 2 major regulations as follows:

1)The Bangladesh Pure Food Ordinance, 1959 Under Ministry of Health And Family Welfare

This is an ordinance to provide better control of the manufacture and sale of food for human consumption. Now, this Ordinance is under revision as 'The Bangladesh Pure Food (Amendment) Act'. Under this Act, it has been proposed to constitute a National Food Safety Council, headed by the Ministry of Health and Family Welfare as well as to establish Food Courts.

AND

The Bangladesh Pure Food Rules, 1967

The Pure Food Rules contain standards for 107 mandatory generic food standards. Now, these are under revision.

(2) The Bangladesh Standards And Testing Institution Ordinance, 1985 Amended By The Bangladesh Standards And Testing Institution (Amendment) Act, 2003 Under Ministry Of Indutsry

Under the Ordinance, the government has established the Bangladesh Standards and Testing Institution (BSTI). It certifies the quality of commodities, materials, whether for local consumption or for export and import.

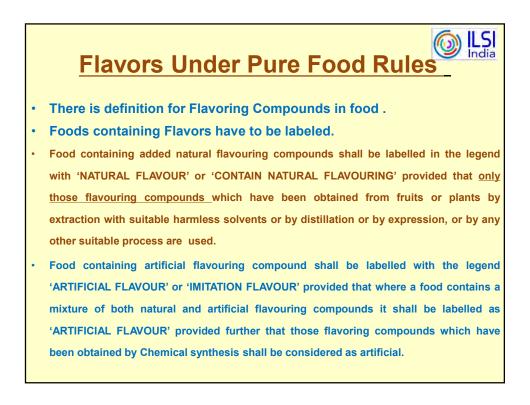
POINTS TO NOTE

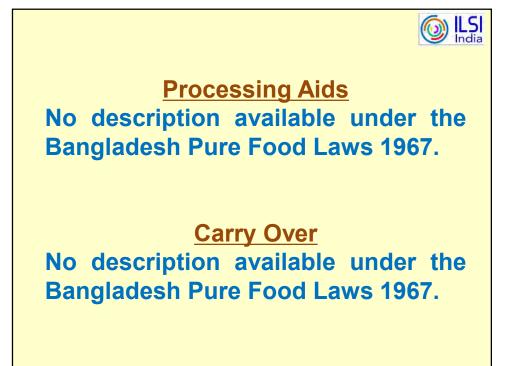
- All standards issued under Pure Food Rules are mandatory in nature and are enforced by BSTI.
- Carbonated water standards have been formulated and enforced under BSTI. These standards are based on Indian as well as CODEX guidelines.
- BSTI has adopted 153 Codex standards for food testing.





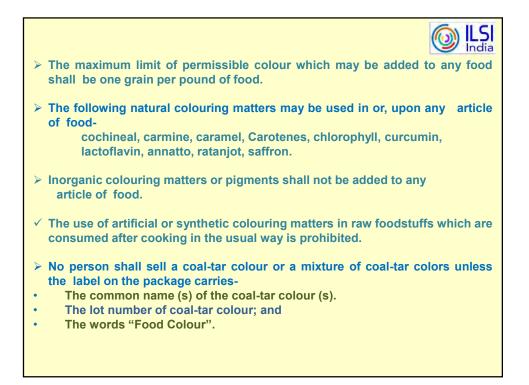




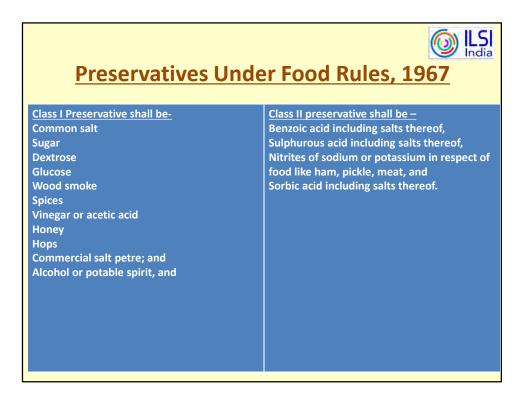




		Co	al-tar Dyes	3	
•	Colour Index No.	Colour Index Name	Common Name	Chemical Class	
•	73015	Food Blue 1	Indigo Carmine	Indigoid	
•	42090	Food Blue 2	Brilliant Blue F.C.F	Triarylmethane	
•	69800	Food Blue 4	Indanthrone	Anthraquinone	
•	42051	Food Blue 5	Patent Blue V	Triarylmenthane	
•	42640	Food Violent 2	Violet 6b	Triarylmenthane	
•	42580	Food Violent 3	Violets B.N.P.	Do.	
•	42085	Food Green 1	Sulpho Green 2 B.A.	Do.	
•	42095	Food Green 2	Acid Brilliant Green	Do.	
•	42053	Food Green 3	A.F. Green No. 3	Do.	
•	15985	Food Yellow 3	Sunset Yellow F.C.F	Monoazo	
•	19140	Food Yellow 4	Tartrazine	Do.	
•		Food Brown 1	Brown F.K.	Disazo	
•		Food Brown 2	Chocolate Brown	Monoazo	
		F.B.			
•	20285	Food Brown 3	Chocolate Brown	Disazo	
		H.T.			
•	14700	Food Red 1	Ponceau S.X.	Monoazo	
•	16185	Food Red 9	Amaranth	Do.	
•	45430	Food Red 14	Brythrosine B.S.	Xanthene	
•	28440	Food Black 1	Black P.N.	Disazo	



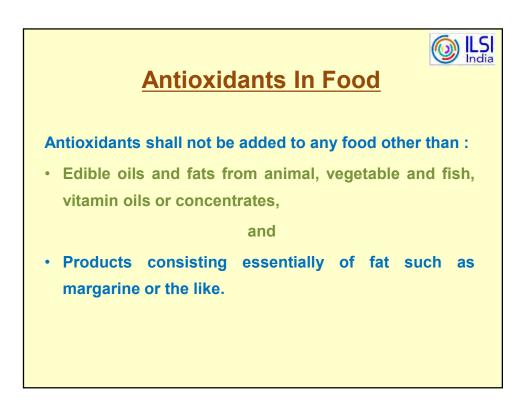


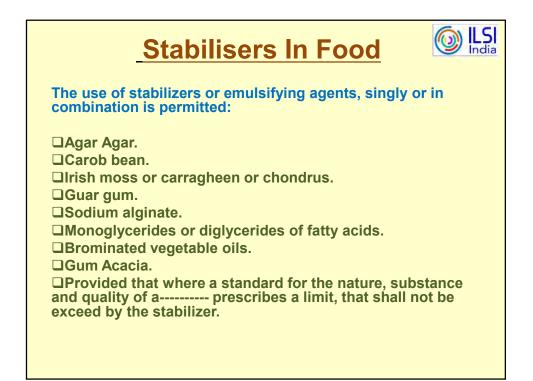




The use of Class II preservatives is restricted to 26 specified group of foods and proportions in which they can be used has also been specified.

Use of more than one class II in any food is prohibited.







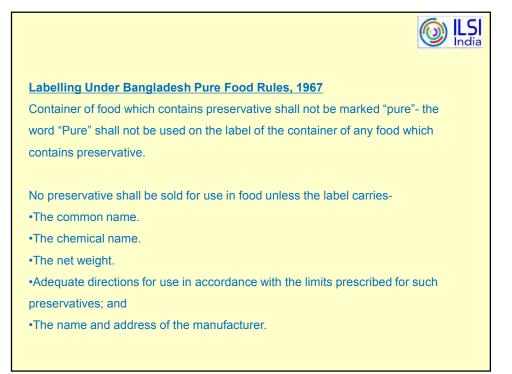
Negative List For Food Additives

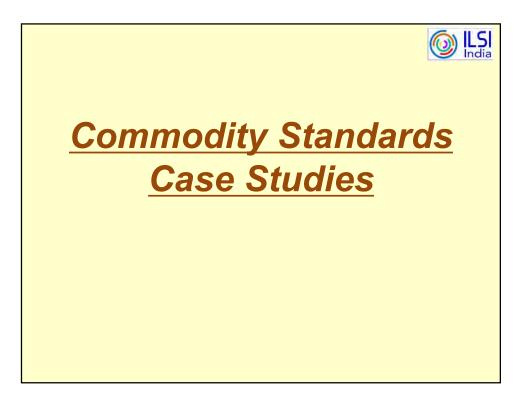


Negative List is Not clearly specified Under Bangladesh Food Laws, 1967. However, products are considered injurious to heath if they contain the following metal or metalloids in excess of the tolerance limit showing against each-

Aluminum	Maximum	250	parts	per	million
Antimony	"	2.0	~ ~ ~	· · ·	**
Arsenic Liquid	٠٠	0.1	دد	دد	دد
Arsenic Solid	٠٠	2	دد	دد	دد
Boron	٠٠	80	دد	دد	دد
Cadmium	٠٠	6	دد	دد	دد
Zinc	٠٠	100	دد	دد	دد
Copper	دد	10	دد	دد	دد
Tin	دد	100	دد	دد	دد
Fluorine	دد	1.5	دد	دد	دد
Silver	دد	1	دد	دد	دد
Lead Liquid	دد	2	دد	دد	دد
Lead Solid	دد	20	٠٠	دد	دد









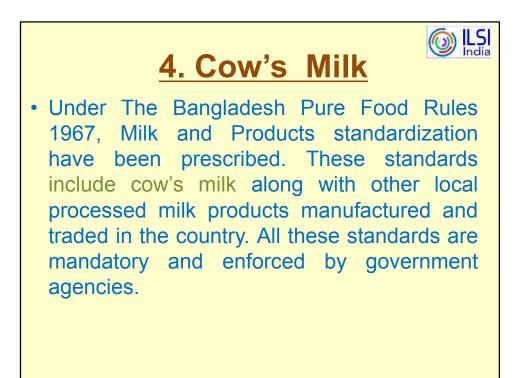
<u>1. Instant Noodles</u>

 Under Bangladesh Pure Food Rules, 1967, NO specific standard for Instant Noodles are prescribed. However, standards for cereal products, local products and vermicelli are provided.



3. Prepared Frozen Foods

There are NO standards Under the Bangladesh Pure Food Rules, 1967, for Frozen Foods including fish, meat and poultry products.

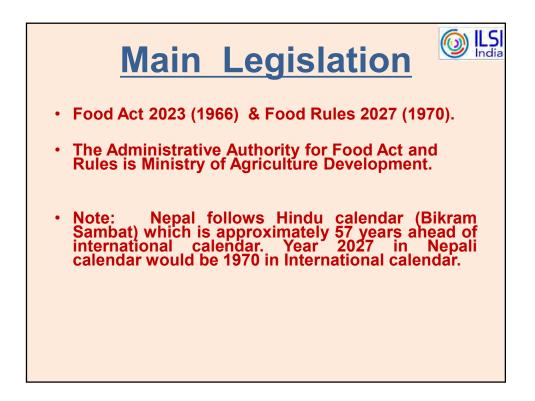


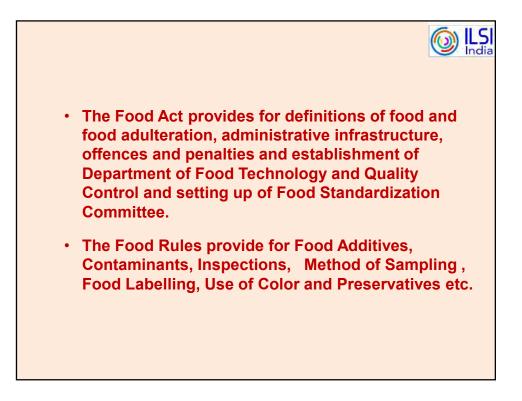




Introduction • In the course of formulating food regulatory framework in Nepal in 1960s, many of the technical aspects were referred from Prevention of Food Adulteration Act of India or PFA. These days, the trend of updating of regulation is mainly guided by the Codex guidelines.

Legislations And Agencies									
Act/Rules and implementing Departments	Related Ministries								
Food Act 1966 DFTQC	Ministry of Agriculture Development								
Food Regulation 1970 DFTQC	Ministry of Agriculture Development								
Consumer protection Act 1998 DoC	Ministry of Commerce and Supplies								
Consumer protection Rules 2000 DoC	Ministry of Commerce and Supplies								
Slaughterhouse and Meat Inspection Act 1998 DLS	Ministry of Agriculture Development								
Slaughterhouse and Meat Inspection Rules 2000 DLS	Ministry of Agriculture Development								
Local self-governance Act 1999 Local Govts	Ministry of Local Development								
Local self-government Rules 2000 Local Govts	Ministry of Local Development								
Nepal Standards (Certification mark) Act 1980 NBSM	Ministry of Industries								
Nepal Standards (Certification mark) Rules 1983 NBSM	Ministry of Industries								
Standard weights and Measures Act 1968 NBSM	Ministry of Industries								
Standard weights and Measure Rules 1978 NBSM	Ministry of Industries								
Animal health and livestock service act 1998 DLS	Ministry of Agriculture Development								
Animal health and Livestock service Rules 2000 DLS	Ministry of Agriculture Development								
Breast feeding substances (Sales & Distribution control) Act 1992 DH/DFTQ									
	/ Ministry of Agriculture Development								
Breast feeding substances (Sales & Distribution control) Rules 1994Depar	tment Ministry of Health & Population.								
of Health /: Department of Food Technology & Quality Control.									
Iodized Salt (Production Sale and Distribution) Act 1999 Department of	Ministry of Health & Population/								
Health/ Department of Food Technology & Quality Control.	/Ministry of Agriculture Development								
Feed Act 1976: Department of Food Technology & Quality Contro	ol. Ministry of Agriculture Development								
Pesticide Regulation Act 1991 DoA	MoAD								







The Functions Of DFTQC, As Specified In Food Act, Are As Follows:
□To analyse appeal (requested) samples.
❑To assist the Food Standardisation Board in generating scientific data to set Standards for food.
□To conduct food inspector training program and issue licenses for food inspectors.
□To regulate imports of food products from the perspective of quality control.
□To facilitate export of food products from the perspective of food safety and quality.
□To provide laboratory services to food quality control programmes including industries and import export trades as requested.

Quality Control Division



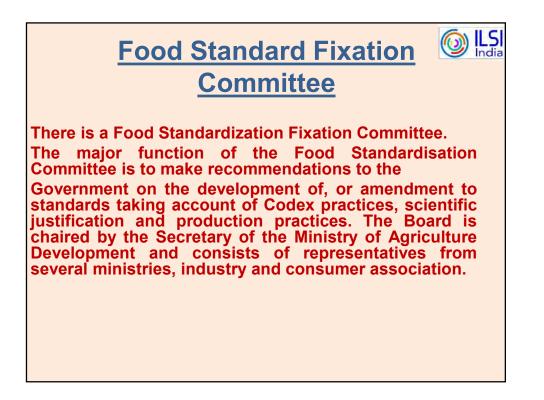
This is the division responsible to execute the factions and activities specifically focused to food quality control (implementation of Food Act & Regulation). The activities include:

•Food Inspection.

•Industry Licencing.

•Consumer Awareness.

•Food Standardization And Compliance.



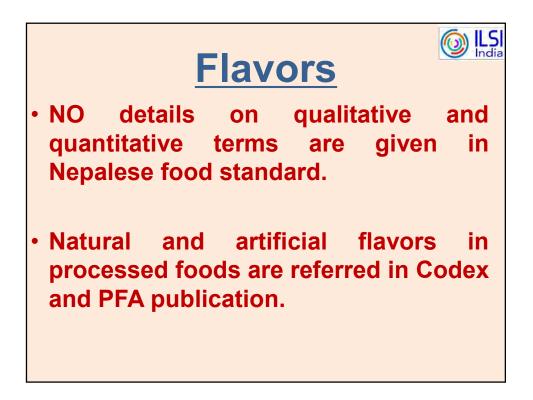


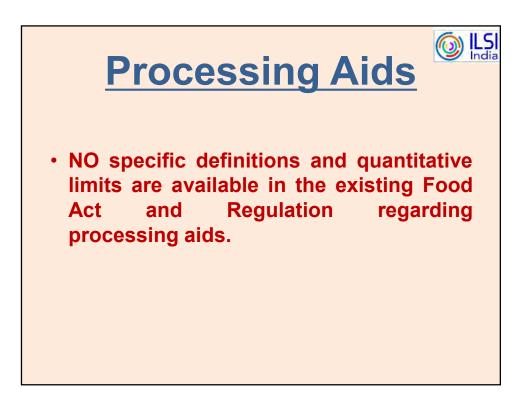
Ia	ble 1. Mandatory Standards For Food	l Commodities Of Nepal
S. N.	Food Group	No. Of Food commodity
1	Milk & Milk Products	18
2	Fats & Oils	16
3	Fruits & Vegetable Products	17
4	Spices & Condiments	22
5	Tea, Coffee, Cocoa and their Products	3
6	Salt	2
7	Cereal, Pulses & their Products	23
8	Processed Drinking Water	1
9	Non-Alcoholic Beverage	1
10	Sweetening Agent	3
11	Sweets and Confectionaries	3

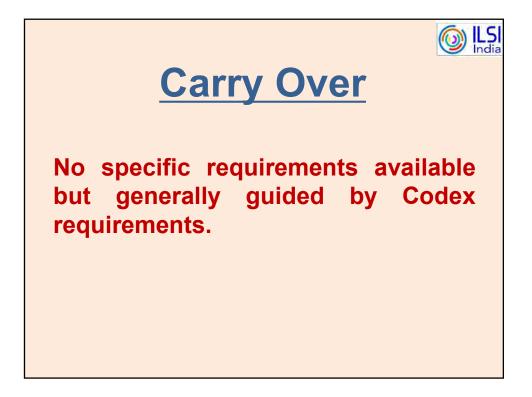


- The standards so far prepared and executed up to now are published in Nepali Language. For specific compositional and technical parameters the English version is also given in the brackets.
- The need is felt by the concerned stakeholders to have an authentically translated version of standards in English. Food safety and quality document being a regulatory document needs to be translated by authorized institutions. Some efforts could be expected towards this direction in near future.











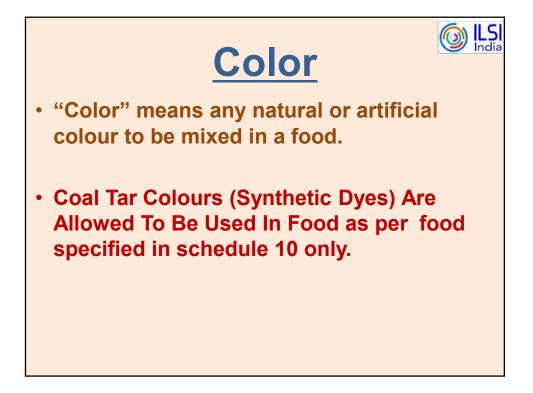


Table 2. List Of Coal Tar Cold	ours
Permitted To Be Used In Fo	od

Туре	Colour Index No. 1956	Common name	Other name
Red	16185	Amaranth	Food Red 9
Red	16255	Ponceau 4R	
Red	45430	Erythrosine	Food red 14
Red	14720	Carmoisine (Azo Rubin)	
Red	16045	Fast red E	
Yellow	19140	Tartrazine	Food yellow 4
Yellow	15985	Sunset yellow FCF	
Blue	73015	Indigo carmine	Food blue 1
Blue	42090	Brilliant blue FCF	
Green	44090	Wool green B.S.	
Green	42053	Fast green FCF	



Maximum Limit of Permitted Colour: The above-mentioned Coal Tar Colours" may be added to any food that is ready for consumption not in excess of 200 milligram per kilogram.

Restriction on the Use of Coal Tar Colours: The Coal Tar Colours can be used only in the following food:

(1) All kinds of ice-cream.

(2) Cheese.

(3) Different preparations from egg.

(4) Biscuit, cake, pastry, and other sweets.

(5) Non-alcoholic beverages except tea, coffee, coca cola.

(6) Custard powder.

(7) Jelly powder.

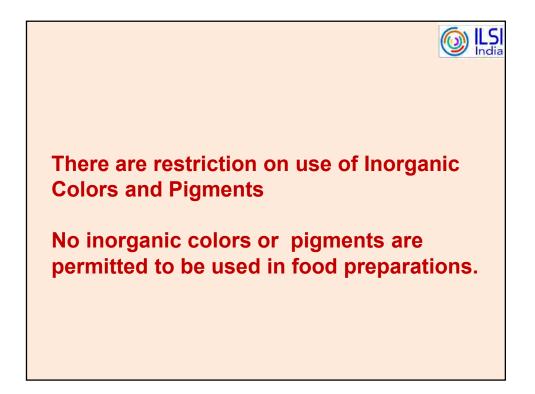
(8) Processed or preserved fruits and green vegetables.

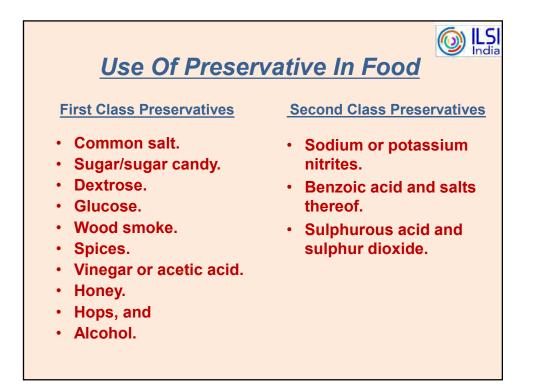
(9) Soup powder.

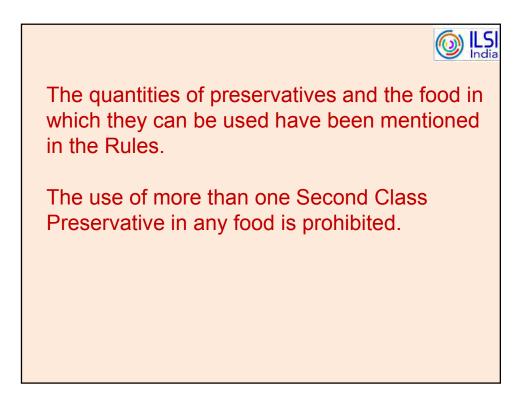
(10) Flavouring agents.

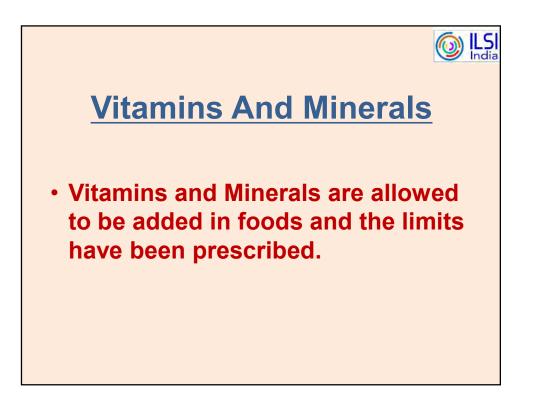
Prohibition of the use of Coal Tar Colours: Even the specified Coal Tar Colours are not allowed to be used in any food to be eaten after cooking.

All	<u>Natural (</u> owed To Be	Colours Used In Food	SI dia
Туре	Colour Index	Common Name	
Yellow	75.120	Annato	
-do-	75.130	Carotine or β-carotine	
-do-	75.100	Saffron	
-do-	-	Riboflavin or lactoflavin	
-do-	75.150	Turmeric or curcumin	
-do-	-	Lentophil	
Gray	-	Caramel	
Red	75.470	Cochineal, carmine or carmine acid	
-do-	-	Ratanjot, hamatoxilin	
-do-	-	Arrayal (atsin)	
-do-	75.520	Alkanet, alkaline	
Green	75.810	Chlorophyll	

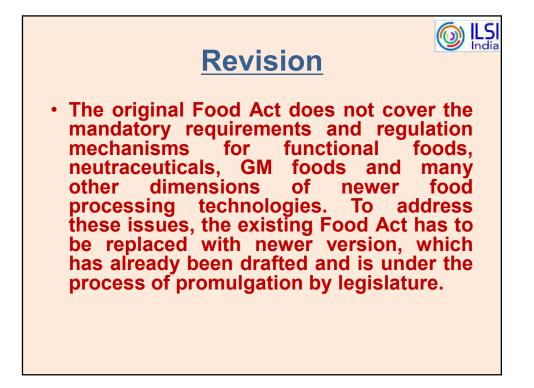




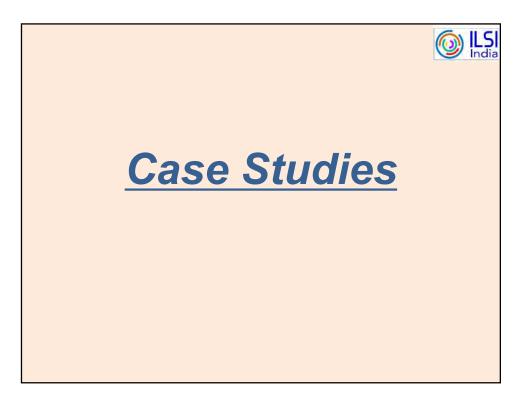


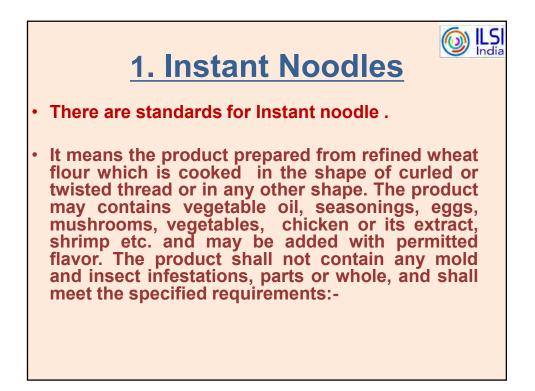


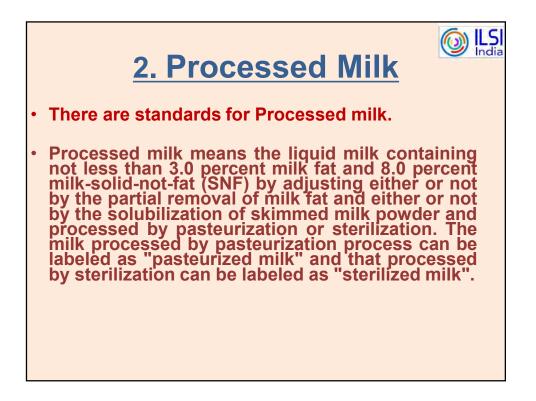


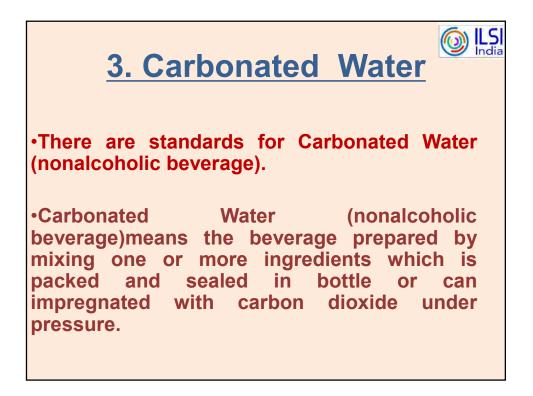




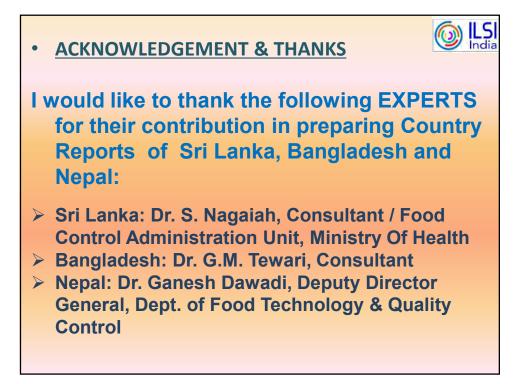










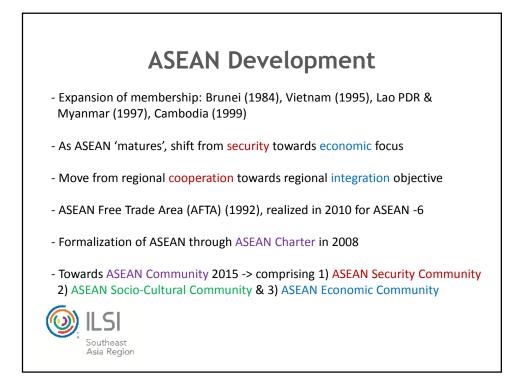




アセアン(ASEAN)における食品及び食品添加物基準のハーモナイゼーションの動向

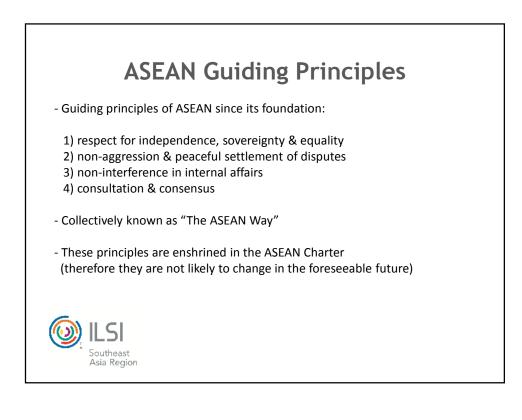






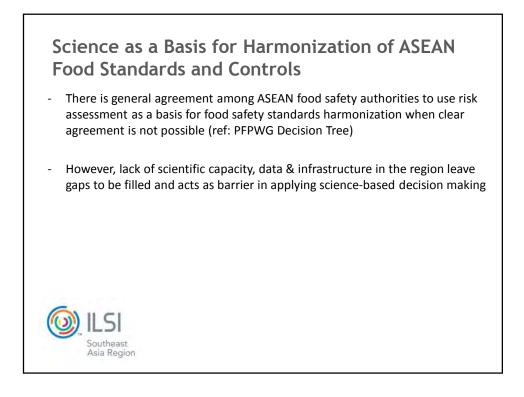
	ASEAN	
- 10 Member States v	vith a combined to	tal population of 600 million
- Rapidly growing eco	nomic region:	
	Country	2012 Real GDP Growth Rate (%)
	Brunei Darussalam	2.7
	Cambodia	6.5
	Indonesia	6.0
	Lao PDR	8.3
	Malaysia	4.4
	Myanmar	6.2
	Philippines	4.8
C	Singapore	2.1
🔘 ILSI	Thailand	5.6
Southeast	Vietnam	5.1
Asia Region		(Source: CIA World Fact Book

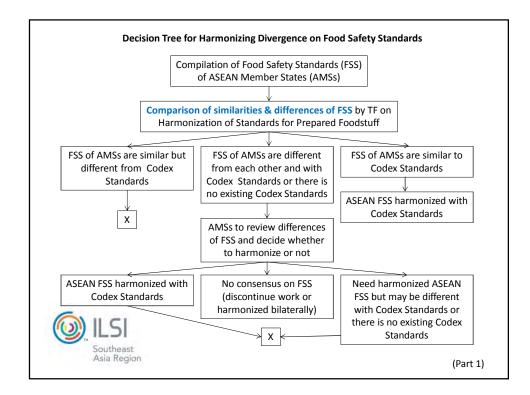


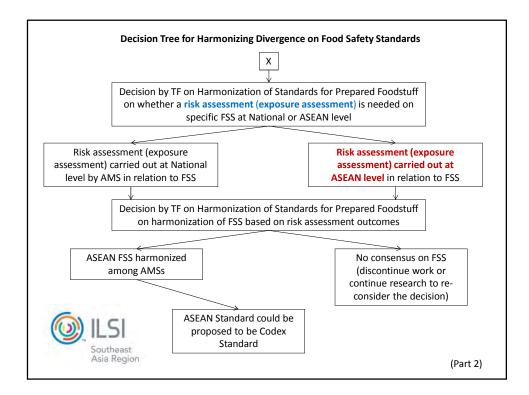


integration		
	ASEAN	EU
	Established post-WW II & de-colonization period with focus on security cooperation at the beginning and only later on economic integration	Established post-WW II with economic integration agenda from the beginning
	Relations-based decision making through informal discussions between leaders	Rules-based decision making through formal negotiations between leaders
	ASEC is purely an administrative institution	EC has mandate to initiate EU legislation
	Voluntary adoption of rules based on national processes	Mandatory adoption of EU legislation once issued
Southeast Asia Region	No cases brought up for dispute settlement	Dispute settlements have helped spur harmonization

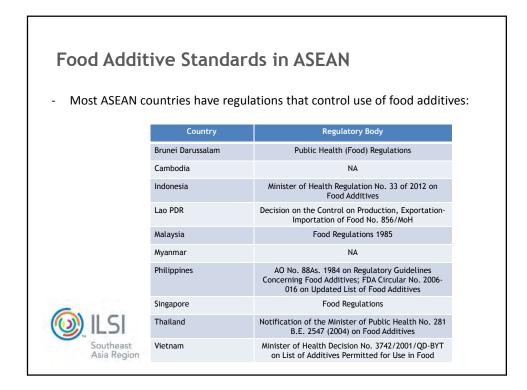


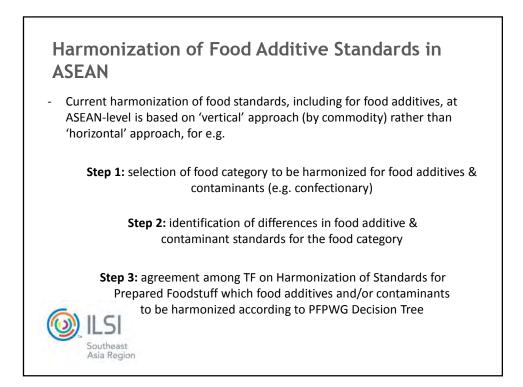




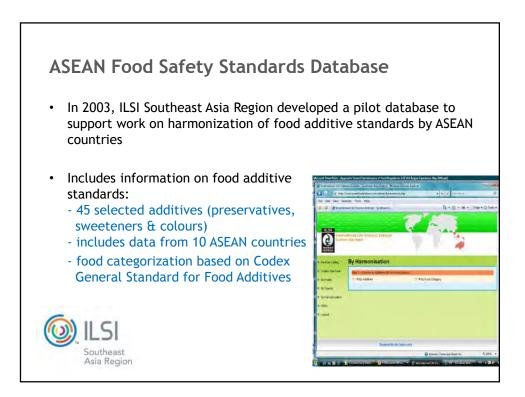


	ountry has specific ditives:	regulatory bodies responsible for c	ontrol of
	Country	Regulatory Body	
	Brunei Darussalam	Food Safety & Quality Control Division, Ministry of Health	
	Cambodia	Department of Drug and Food, Ministry of Health; CAMCONTROL	
	Indonesia	Ministry of Health; National Agency for Drug and Food Control	
	Lao PDR	Food and Drug Department, Ministry of Health	
	Malaysia	Food Safety & Quality Division, Ministry of Health	
	Myanmar	Food and Drug Administration	
	Philippines	Food and Drug Administration	
6	Singapore	Agri-Food & Veterinary Authority	
🔘 ILSI	Thailand	Food and Drug Administration	
Southeast	Vietnam	Vietnam Food Admistration	
Asia Region			

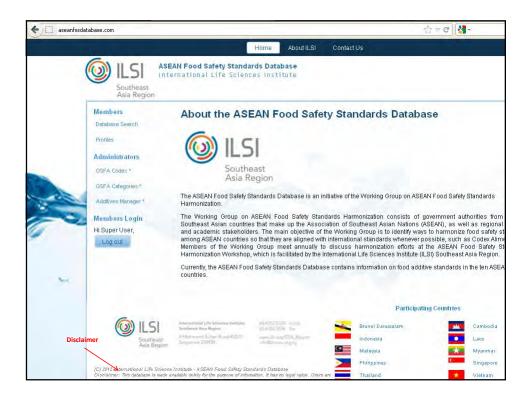


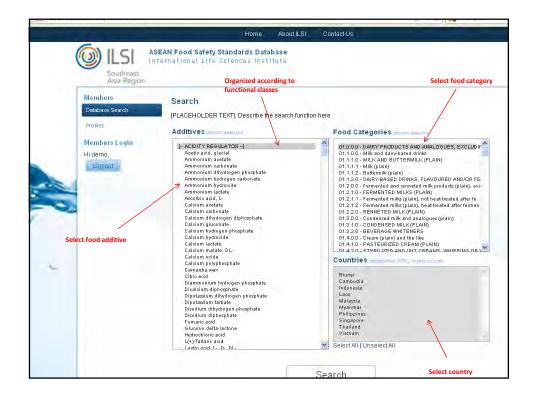




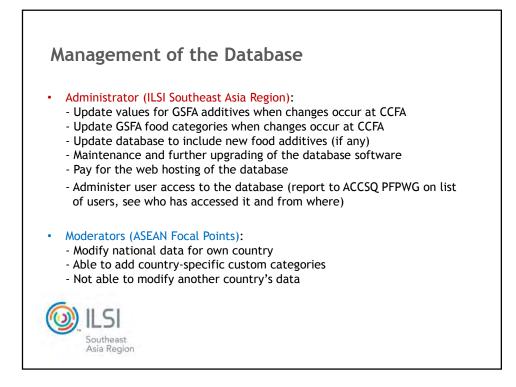


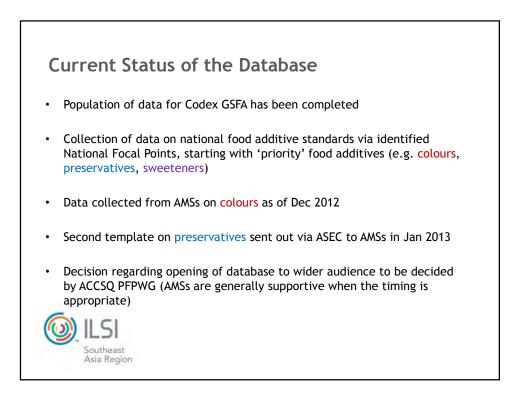
Timeline	Activity
Jan 2011	Decision to hand over AFSSD to ACCSQ PFPWG at 9 th ASEAN Food Safety Standards Harmonization Workshop
Feb 2011 - Dec 2011	Revamping and upgrading of AFSSD to meet current technical needs for food safety standards harmonization
Feb 2012	Shared at 10 th ASEAN Food Safety Standards Harmonization Workshop
June 2012	Shared at 15 th ACCSQ PFPWG and adopted by ACCSQ PFPWG for their use in the work on food safety standards harmonization
Southeast Asia Region	Website: <u>www.aseanfssdatabase.com</u>





6		12.272									
	N Food Safety Standards Dat national Life Sciences Ins										
Members Database Search	Search Search Criteria										
Profiles	Food Categories	ALL									
Members Login	Additive/Substance	Prese	rvative/B	enzoates							
Hi demo,	Countries	ALL									
Log out	Legend							A	rows to in	dicate	
Indicates specific	COPP Value Come with COPPA Date	GSFA	-	-	_	-		hig	nether low gher than (GSFA valu	
notes/conditions of use (roll over to reveal)	01.0.0.0 DAIRY PRODUC TS AND ANALOGUES, EXCLUDING PRODUCTS OF FOOD	(Codex STAN 192-199) 100 ppm	200 ppm (+ 100ppm)	GO ppm (-40ppm)	90 ppm (-10ppm)	Laos 200 ppm (+ 100ppm)	Malaysia 60 ppm (-40ppm)	NP	r Philippines	NP	E Th
1.00	CATEGORY 02.0 01.00 Milk and dairy-based drinks	50 ppm	60 ppm (+ 10ppm)	60 ppm (+ 10ppm)	60 ppm (+ 10ppm)	60 ppm (+ 10ppm)	60 ppm (+ 10ppm)	60 ppm (+ 10ppm)	60 ppm (+ 10ppm)	NP	(*
Red indicates all countries not harmonized with	MILK AND BUTTERMILK (PLAIN)	NP	80 ppm	80 ppm	80 ppm	80 ppm	80 ppm	80 ppm	80 ppm	NP	
GSFA Blue indicates some (not all)	outro Milk (plain)	NP	NP	NP	NP	NP	80 ppm	NP	NP	NP	
countries harmonized with GSFA	Buttermilk (plain)	NP	NP	NP	NP	NP	80 ppm	NP	NP	NP	
Green indicates all countries harmonized with GSFA	DAIRY BASED DRINKS, FLAVOURED AND/OR	NP	NP	NP	NP	NP	NP	NP	NP	NP	



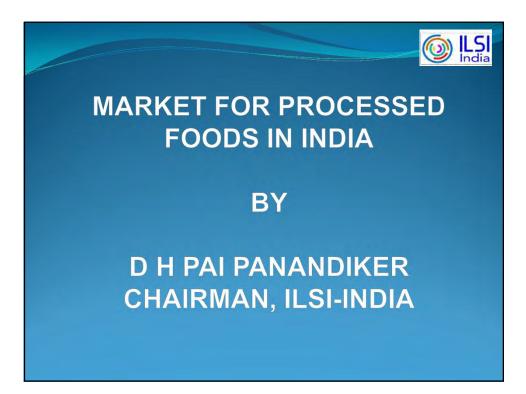








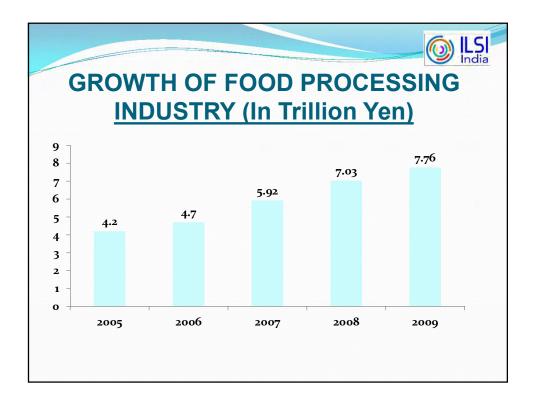
インドにおける加工食品の市場について

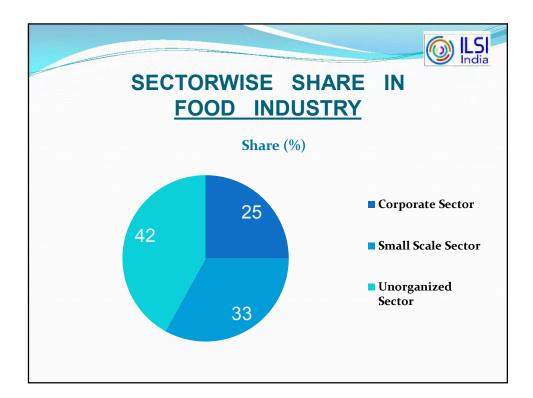




	F AGRICULTURAL
Malaysia	80
Philippines	78
Brazil	70
China	40
Thailand	30
India	20

	N OF SELECT
Fruits	80 mil tons
Vegetables	140 mil tons
Milk	115 mil tons
Fish	8 mil tons
Poultry	0.8 mil tons
Eggs	60 billion
Food grains	250 mil tonnes







MARKET SIZE OF CORPORATE SECTOR IN PROCESSED FOODS 2010-11				
Food	Japanese Yen			
Milk Powder and Condensed Milk	58.5 billion			
Infant Milk Products	59 billion			
Malted Milk Foods	62.8 billion			
Ice-cream	21 billion			
Flour Milling	215.6 billion			
Biscuits	217 billion			
Bread	13.3billion			
	1.6 billion			

Food	Japanese Yen	
Wafer and Potato Chips	29 billion	
Fruits Juices	36.1billion	
Sauces/Ketchups/jams	17.4 billion	
Sugar	1.03 trillion	
Confectionery	134 billion	
Vegetable Oil	1.8 trillion	
Soya Products	339.5 billion	
Poultry Products	116.9 billion	
Marine Products	1.56 trillion	
Soft Drinks	227 billion	

事例研究1:味の素㈱のインドにおける事業展開



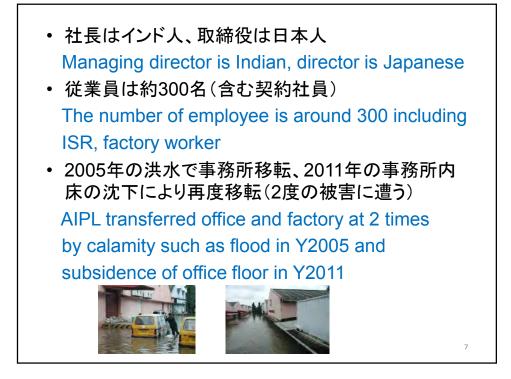
















Going together

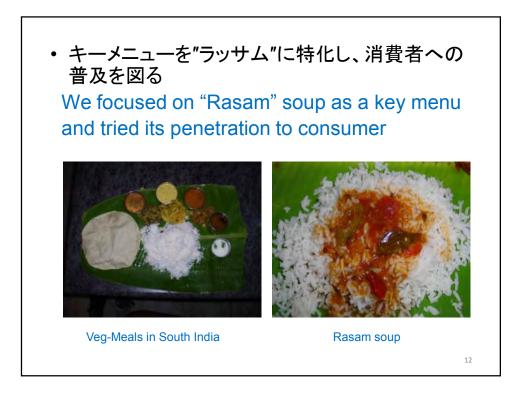
Attaching sticker

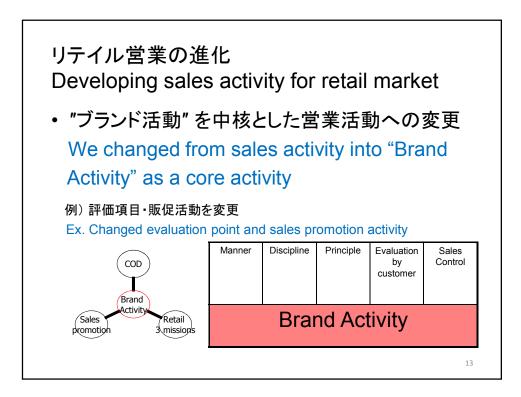
Sales seminar

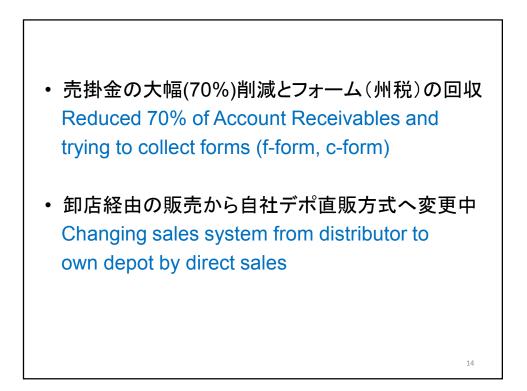
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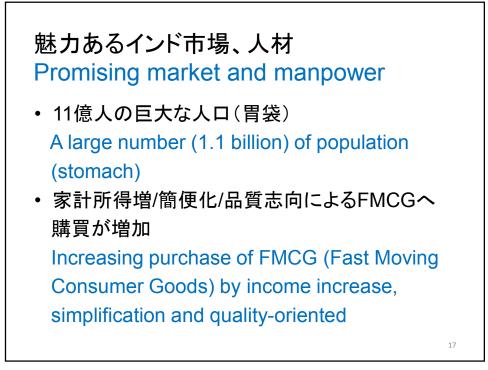






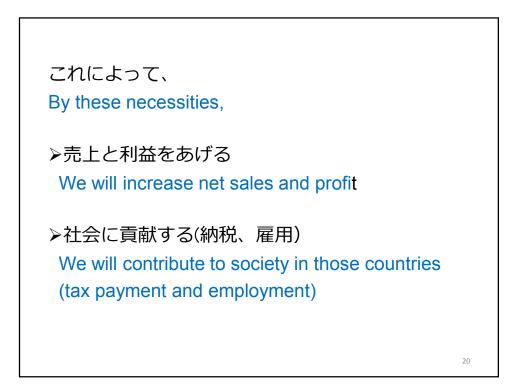


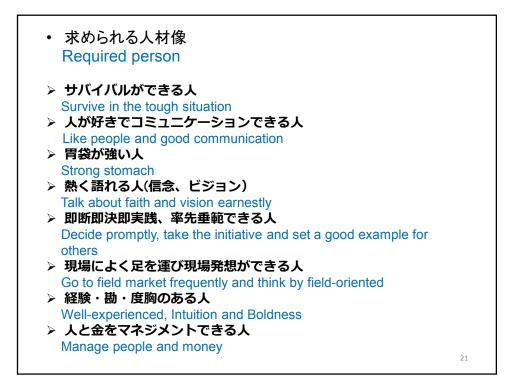






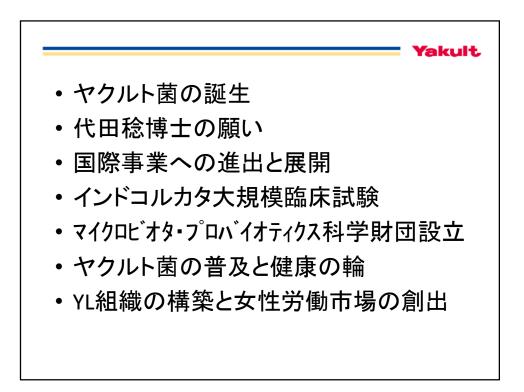


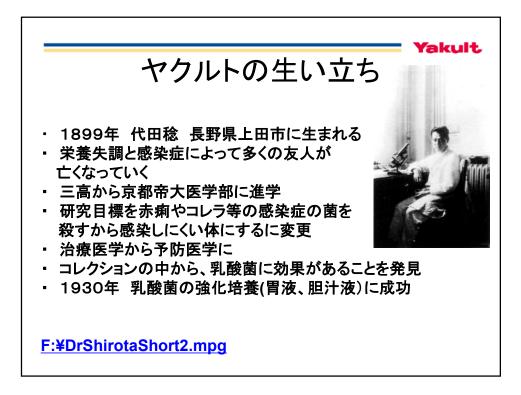


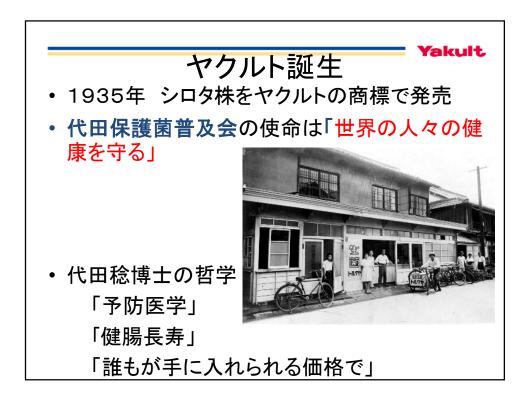








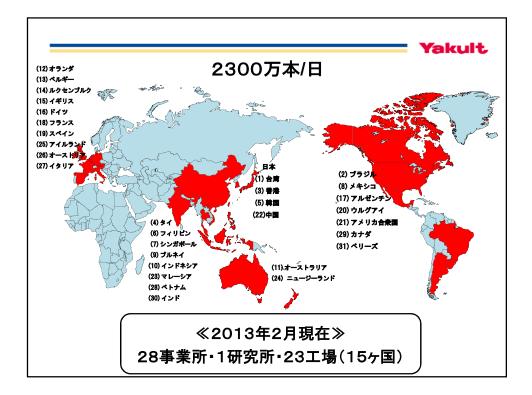






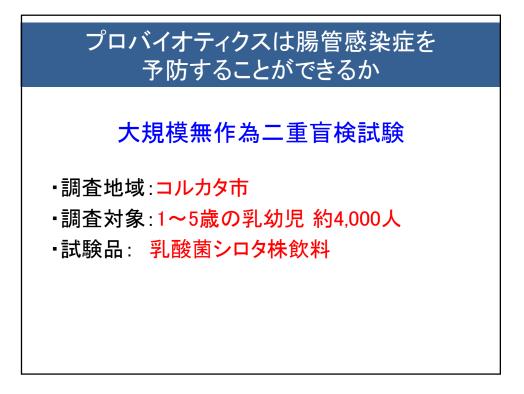






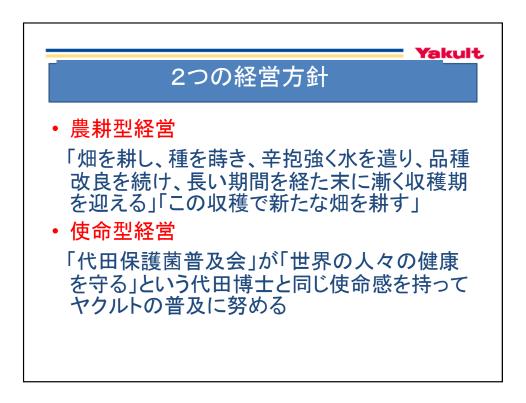












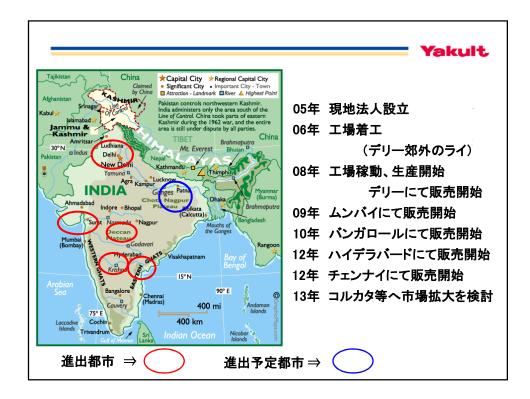


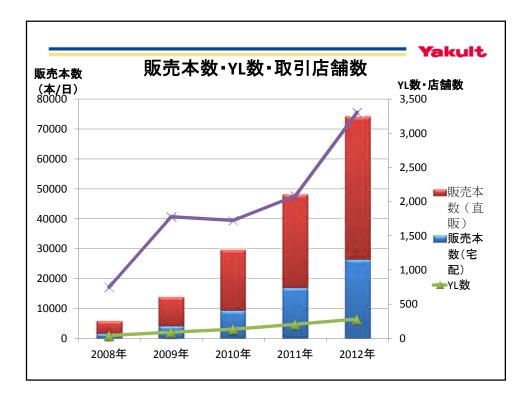












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	1-1	51-001	୵ୢୄ୰୵ୢଽ	气 女义 了比1		単位:人)
咅	8門	2008年	2009年	2010年	2011年	2012年
	・総務・ !・購買	8	11	11	11	17
営業	宅配部門	26	32	36	56	69
	直販部門	14	25	28	22	29
	その他	1	2	0	0	0
	小計	41	59	64	78	98
学術広報		3	4	3	3	4
工場		39	27	27	27	31
4	計	91	101	105	119	150

