

HACCP Implementation in India

Experience of Certification Body

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What I will be covering..

- Indian Food Industry
- The HACCP History
- HACCP in current scenario
- Government initiatives

Indian Scenario



- 35 states
- Economy - US \$ 1.843 trillion*
- GDP - 10.4% in 2010*
- Labour Force - 467 million *
- Agriculture sector share – 28%
- Biodiversity

* International Monetary Fund

India ranks



Irrigated Land	(55 Million Ha)
Milk	(91 Million T)
Cattle & Buffaloes	(283 Million)
Tea	(980 Million Kg)

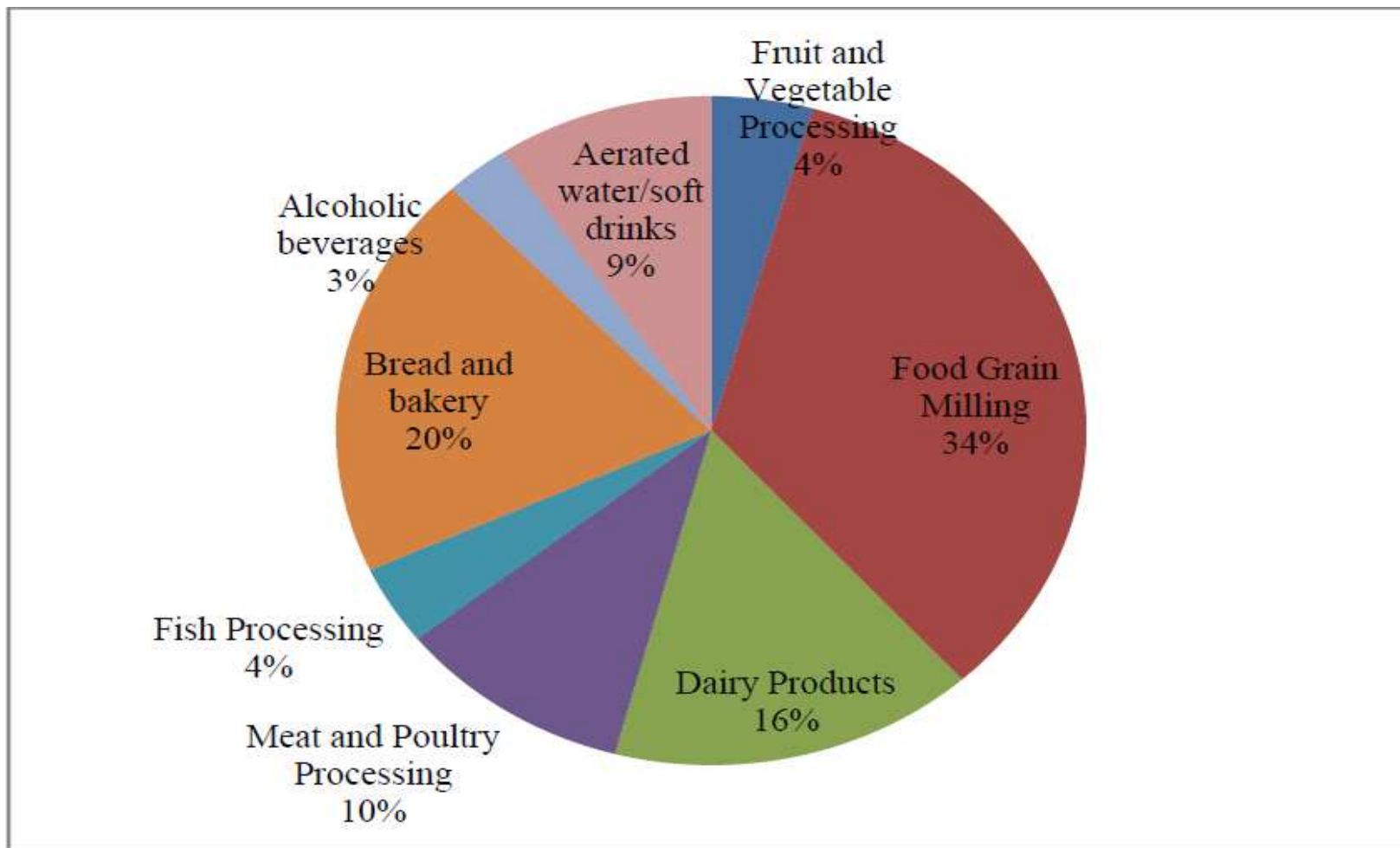


Arable land	(181 Million Ha)
Food Grains	(220 Million T)
Fruits & Vegetables	(151 Million T)
Sugarcane	(245 Million)
Sheep & Goat	(182 million)



Coarse Grains including maize	(204 million T)
Edible oil seeds	(230 million T)
Fish & Poultry	(6.3 & 489 Million T)

Major food processing sectors



The History of HACCP Implementation...

- 1990 
 - Globalization
 - Started with Fish & Meat industries, HACCP approval by Govt. bodies
- 2000 
 - Government schemes for HACCP implementation
 - Encouraged other industries for HACCP
 - Indian Standard IS 15000
 - Nation specific HACCP standards like Irish HACCP, Dutch HACCP, SA HACCP were used for certification.
 - **Codex HACCP, being guideline, is not certifiable.**
 - Essentially...**FOOD** industries
- 2005 
 - ISO 22000:2005 published.
 - Scope...Food Chain
- 2008 
 - GFSI approved standards certification like BRC Food, FSSC 22000, IFS
- 2011 
 - **Food Standards and Safety Act of India. Schedule IV**

What is FSSAI?

Food Safety and Standards Authority of India
भारतीय खाद्य संरक्षा एवं मानक प्राधिकरण

fssai

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Science in FSSAI
Imported Food
Int. Co-operation

Codex

The Food Safety and Standards Authority of India has been established under the Food Safety and Standards Act, 2006 as a statutory body for laying down science based standards for articles of food and regulating manufacturing, processing, distribution, sale and import of food so as to ensure safe and wholesome food for human consumption.....

Update

Preparation of Demand Draft against Payment for the testing of Samples of Imported Food Articles by Laboratories notified by FSSAI - Reg (17-11-2011) .

Clarification regarding standard of Infant Formula for Authority's Website (16-11-2011).

Limited Tender Enquiry for printing of FSSAI Diary 2012. Dated:(15-11-2011)

Training Programme of Designated Officers from 15-11-2011 to 18-11-2011 at Gujrat - Dns. Dated:(15-11-2011)

Sector Classification

Petty Food Manufacturer Manufacturer/ Processor Storage / Warehousing



- Small / Cottage industry
- Stall holder / Hawker
- Petty retailer of snacks/tea
- Dhaba
- Food Stalls / arrangements in religious gatherings, fairs
- Fish / Meat / Poultry Shop / Seller
- Home based canteens / dabba-walas
- Milk vendors



Distribution



Retailer



Registration and Licensing

Petty Manufacturer	Registration by State FSSAI Comply with Schedule IV requirements
Small Manufacturer Warehouse / Distributors	License by State FSSAI Comply with Schedule IV requirements HACCP Plan approval by 3rd party CB
Big Manufacturer	License by Central FSSAI Comply with Schedule IV requirements Food Safety Management System certification by 3rd party CB

So, what are food safety licensing requirements?

What are licensing requirements?

- Food Safety

- Compliance to GMP-GHP requirements as per Schedule IV
- Plant Layout
- Details of equipment & machinery
- Water analysis report
- Source of raw material procurement for milk and meat
- FSMS Plan / certificate
- Medical fitness certificates
- Qualification details of production technical personnel

- Legal

- Proofs
- Nominee
- Annual returns

So, what are Schedule IV requirements?

Schedule IV requirements

General Hygiene and Sanitary Requirements for

Part I	Petty Food Business Operators
A	Food Manufacturer / Processor / Handler
B	Street Food Vendors and Units other than manufacturing / Processing
Part II	Food Business Operators (FBO)
Part III	FBO in manufacture, processing, storing and selling of Milk and Milk products
Part IV	FBO in manufacture, processing, storing and selling of Meat and Meat products
A	Slaughter House
B	Meat Processing Units
C	Meat shops
Part V	FBO in catering / food service establishments

Part II: Requirements for FBO applying for license

Location & Surroundings

Food Testing Facilities

Layout & design of food establishments

Audit, Documentation & Records

Equipment

Sanitation and maintenance of establishments

Facilities

Personal Hygiene

Food operations & control

Product information and consumer awareness

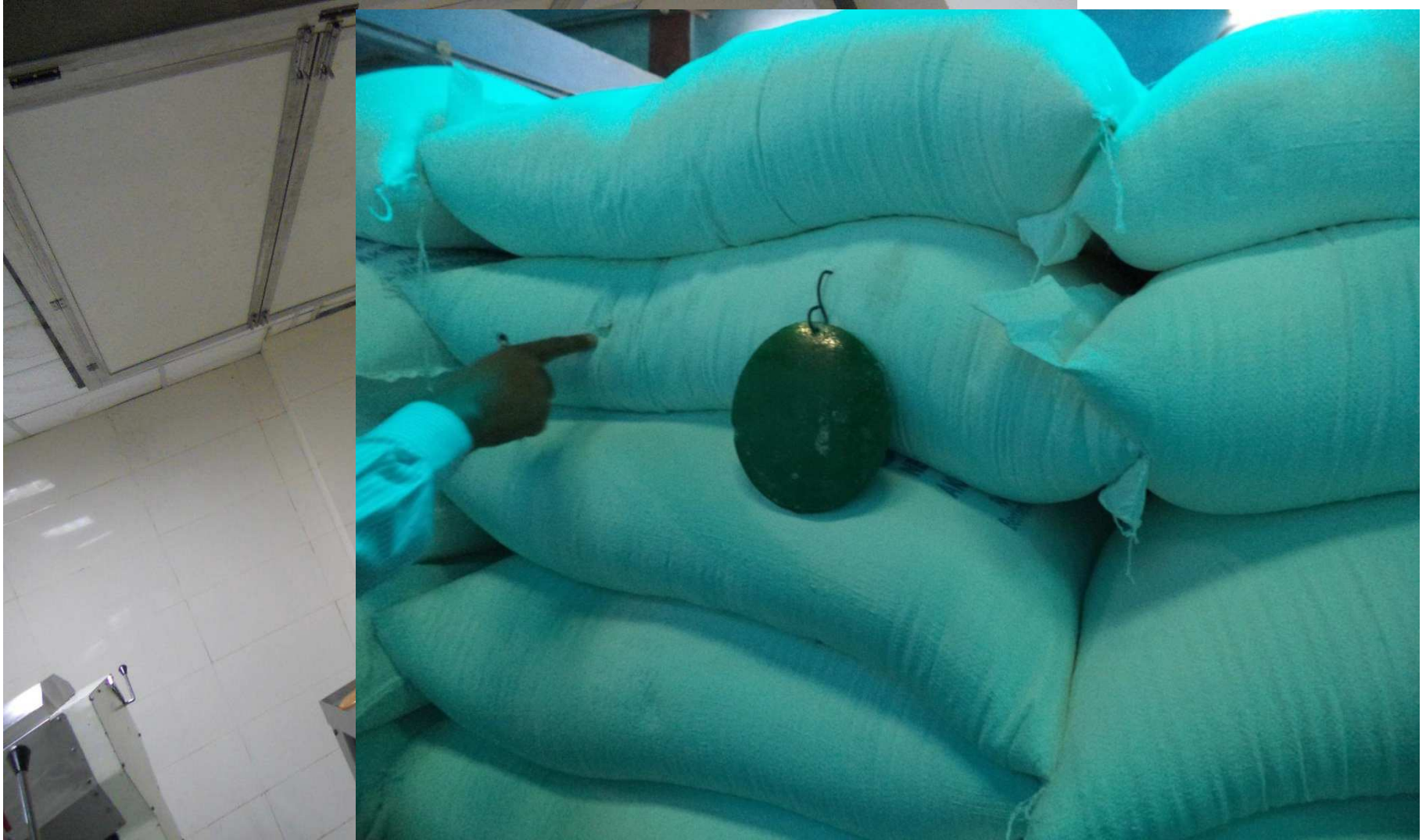
Management and Supervision

Training

Some pictures



Some pictures



Schemes by Governments



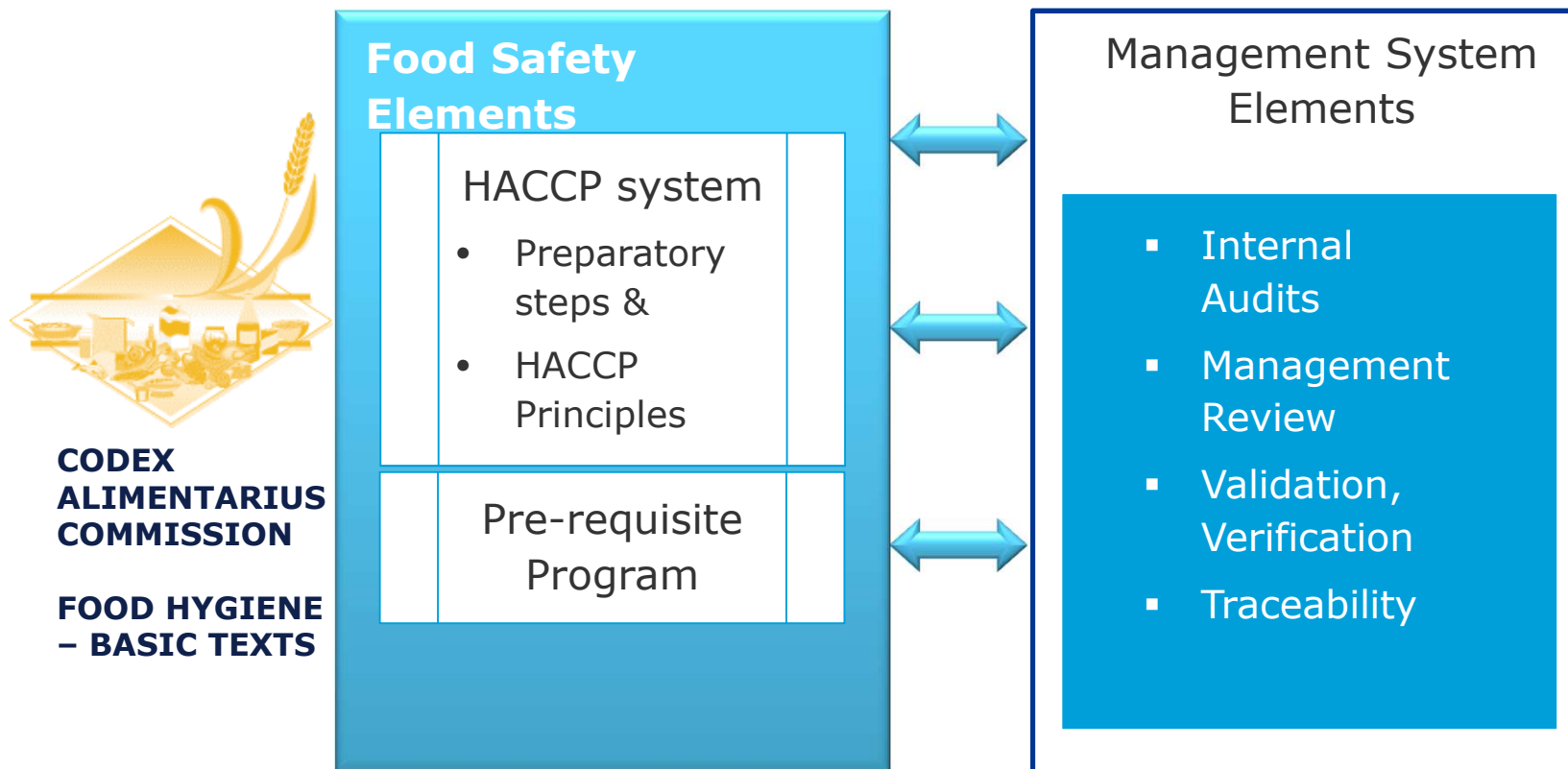
- Implementation : Reimbursement of 50% up to max of 25 lakhs
- Expansion/ Up-gradation: 50 lakhs



- Implementation : Reimbursement of 33% up to max of 4 lakhs
- Expansion/ Up-gradation: 10 lakhs
- Cold storage

- Qualification criteria for CB and Auditors (Food microbiology, Dairy technology, Food technology etc)
- CB Must have local accreditation

Codex HACCP vs Management System standards



Linkages with ISO 22000 based FSMS

C4: Control of Documents and Records

- Control of Forms, Annexures, Records

C6: Resource Management

- Personnel Training
- Technically qualified personnel for supervision
- Details of machinery & equipments

C8: Validation, Verification, Improvement

- Internal Audit
- Traceability & Product Recall plan

C5: Management Commitment

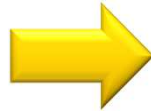
- SOP for top management
- FSMS Certificate / Plan for licensing

C7: Planning for safe production

- Schedule 4 – GMP/GHP requirements
- Product information and Consumer Awareness
- Food Product Standards - Limits for Contaminant, Toxin & Residue, Food Additives, Microbiology
- Sampling requirements

Everyone responsible for Food Safety

Government



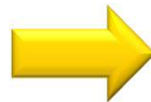
- Food Legislation & Enforcement
- Guidelines for Industry/ Trade
- Information Gathering and Research
- Provision for Health related services
- Consumer Education

Academia



- **Introducing HACCP in the curriculum**

Industry



- Follow GMP-GHP requirements
- Quality Assurance
- Trained Managers and Food Handlers
- Appropriate Process and Technology
- Informative labeling

Consumer



- Educated & Knowledgeable Public
- Active Consumer Groups & community participation

Key Challenges:



- Appropriate understanding HACCP as per nature of the organization
- Improper implementation of Pre-requisites / Basic hygiene principles

High / Heavy / Complicated documentation



- Perception that HACCP implementation requires high cost

HACCP Users...



Food



Personal Care



Ayurvedic



Tobacco



Toothpaste



Pet Foods

Summary

- Codex HACCP is the basic requirements to comply for compliance towards food safety
- Codex HACCP defines the technical requirements, however management system elements are essential for its continual maintenance.
- FSSAI has made Basic principles of Hygiene and food safety mandatory through its licensing requirements.
- It's a shared responsibility of all.....
- Wider application

Thank you !!!

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