

#### NABL's Role in Food Safety Through Laboratory Accreditation



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#### NABL MANDATE

- NABL grants accreditation to testing & calibration laboratories as per ISO/IEC 17025 and medical laboratories as per ISO 15189.
- NABL operates its own system as per ISO/IEC 17011:2004 Conformity Assessment: General Requirements for Accreditation Bodies accrediting Conformity Assessment Bodies
- NABL Accreditation is a voluntary program

### Key Requirements for Demonstrating Food Safety

Food Safety Management Systems (ISO 22000, HACCP)

Regular Surveillance mechanism

Credible testing laboratories (ISO17025; ILAC-MRA)

## HOW CAN WE DEFINE 'ACCREDITATION'?

Procedure by which an Authoritative Body (NABL) gives formal recognition that a Body (laboratory) is competent to carry out a specific task (testing/calibration)





# How 'Accreditation' critical to 'Food Manufacturer/Supplier



- ✓ Minimizing Risk of producing Faulty Food Products entering the market
- ✓ Avoid Expensive Retesting
- ✓ Ease Export & import issues regarding Food safety

#### **Need for Food Laboratory Accreditation**

- **❖**To ensure accurate, reliable and reproducible test results and measurement data.
- \*To achieve consistency and uniformity in test results and measurement data.
- To have confidence in the quality of goods and services we use.

**❖**To meet Customer's requirement who specify testing by accredited laboratories.

To meet requirements of Regulatory and Government agencies who sometimes require testing by accredited laboratories.

**⋄**To ensure equivalence of results produced by different laboratories.

# Now Recognition by Government & Regulators



- Food Safety and Standards Authority of India (FSSAI)
- Ministry of Consumer Affairs & Public Distribution
- Agricultural & Processed Food Products Export Dev. Authority (APEDA)
- Export Inspection Agency (EIA) & Bureau of Indian Standards (BIS)
- Tea Board, Coffee Board, Spices Board......

#### Checking the Competence of a Laboratory

1. On Site Assessment of Food Testing laboratory by Experts for Its Technical Competence

ISO/IEC 17025:2005

Specific Criteria, NABL-102, 103



3. Overall Compliance to ISO/IEC 17025:2005

Once Tested -----accepted Everywhere

#### **Accreditation Of PT-Providers**

✓ NABL has commenced the new program for the convenience of Laboratories-----

"Accreditation of 'Proficiency Testing Providers' in accordance with *ISO/IEC 17043:2010* on the eve of "World Accreditation Day-9<sup>th</sup> June 2011"

-----Also Potential PT providers are being identified in the area of Food Testing

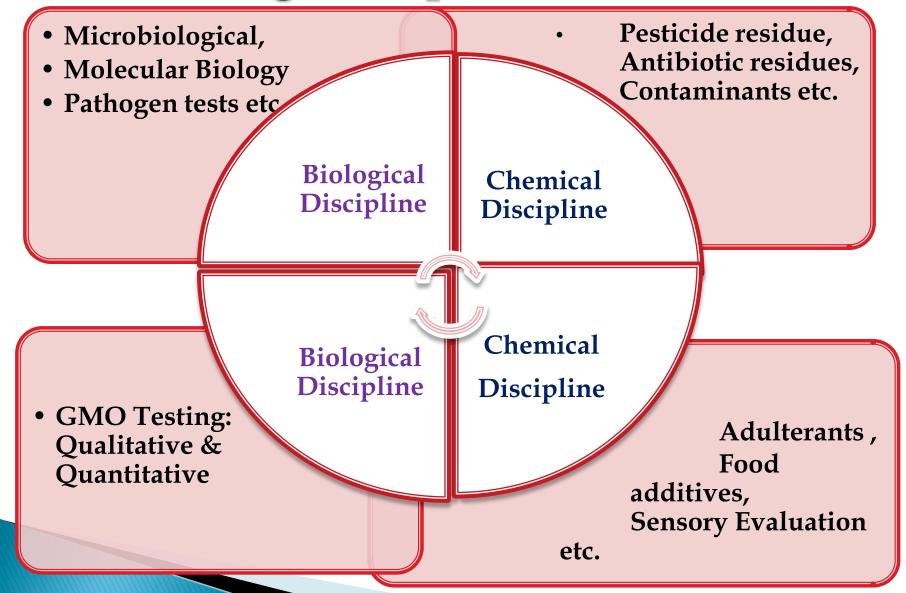
# Management Requirements of ISO/IEC 17025

- Organization
- Documentation
- Review of requests and sub-contracting
- Purchasing services
- Service to the client & Complaints
- Control of non-conforming work
- Corrective & preventive action
- Technical Records
- Internal audit & Management review etc.

# Technical Requirements of ISO/IEC 17025

- Technical competence of staff
- ▶ Testing environment & accomodation
- Test methods and validation
- Equipment
- Measurement Traceability
- Measurement uncertainty (laboratory must know how far its results are from true values)
- Sampling, handling and transportation of test items
- Quality assurance, Proficiency Testing
- Test reports

#### **Food Testing Discipline**



#### **Assessors Training Programs**

- NABL organizes its own Assessors' training courses as per ISO/IEC 17025.
- NABL has pool of 1400 trained assessors out of which 948 are active.

NABL has organized Assessors' training courses for Sri Lanka, Nepal, Bangladesh, Mauritius & Mongolia.

### International Recognition of NABL



- NABL is signatory to APLAC / ILAC Mutual Recognition Arrangements (MRA) since 2000
- > First evaluated by APLAC in 2000
- Second evaluation by APLAC in 2004
- > Third evaluation by APLAC in 2008
- Fourth evaluation 2012 successfully



#### Global Acceptance of Reports

- > Test reports issued by an NABL accredited laboratory is considered equivalent to those issued by ILAC/APLAC MRA partners.
- ➤ Global MRA has network of ~35,000 Accredited labs from 88 different economies
- Data generated by an accredited laboratory may lead to the more ready acceptance of exported goods in overseas markets

Global eCommerce Acceptance

#### **Benefits from Laboratory Accreditation**

### 1. Using an accredited laboratory benefits Government and Regulators by:

- > Increasing confidence in data that are used to establish baselines for key analyses and decisions
- > Reducing uncertainties associated with decisions that affect the protection of human health and the environment
- Regulators can reduce their In-house Inspectorate and specialist assessment personnel to reduce the cost or target their inspection more effectively
- Increasing public confidence, because accreditation is a recognisable mark of approval

### 2. Using an accredited laboratory also increases confidence that:

- > Decisions regarding multiple facilities are based on comparable data
- Purchases received from suppliers are safe and reliable
- Costs associated with laboratory problems, including re-testing, resampling, and lost time are minimised
- > False positives and negatives, which can directly affect compliance with regulations, are minimised
- Facilitates trade and economic growth

#### Once Tested accepted Everywhere

#### Cross Border Food Laboratory Accreditation

- > SGS Bangladesh Ltd, Dhaka, Bangladesh
- Bangladesh Standards and Testing Institution (BSTI), Dhaka
- > Bureau Veritas Consumer Products Services (Lanka) Ltd., Sri Lanka
- ➤ SGS Lanka Pvt. Ltd, Colombo, Sri Lanka
- > NFTL (Bhutan Agricultural Food Regulatory Authority), Bhutan--
  - (Applicant)
- > Central Food Laboratory, Kathmandu, Nepal



#### Participation in APLAC Evaluations

- NABL actively participates in APLAC evaluations of Other Accreditation Bodies which are operating in accordance with ISO/IEC 17011:2004.
- ➤ 8 NABL Officers have participated as APLAC / ILAC evaluation team members for 19 Accreditation Bodies, major are:

Australia, Japan, Newzealand, USA, Russia, China, South Africa, Singapore, Malaysia, Korea, Philippines, Sri Lanka etc

#### www.nabl-india.org

### THANK YOU