

Role of Bureau of Indian Standards – An Overview

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BIS – Locations

HQs - Delhi

o5 Regional Offices

33 Branch Offices in 28 locations

o8 Labs

oı Training Institute (NITS)



Structure of BIS

- The Bureau is a Body Corporate consisting of 25 members
- President Union Minister of Consumer Affairs, Food and Public Distribution
- Vice-President- Minister of State for Consumer Affairs, Food and Public Distribution
- Members representing -
 - Central and State Governments,
 - Members of Parliament,
 - Industry,
 - Scientific and Research Institutions,
 - Consumer organizations and
 - Professional bodies

CORE ACTIVITIES

- Standards Formulation and International Standardization activity
- >Conformity Assessment
- > Hallmarking of Jewellery & artefacts
- > Management Systems Certification
- >Testing
- >Training

Who sets National Standards?

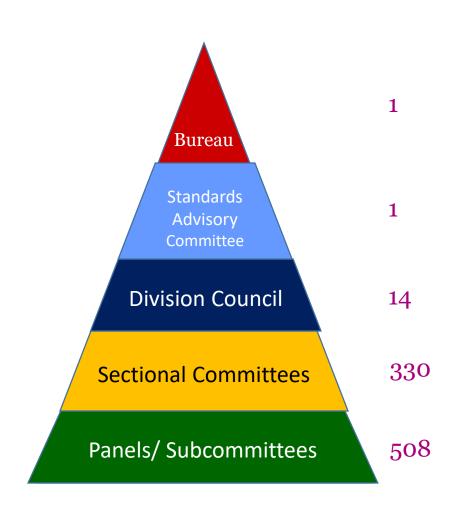


- ❖ BIS, erstwhile ISI, works under the aegis of Ministry of Consumer Affairs, Food and Public Distribution, Govt. of India.
- It is governed by Bureau of Indian Standards Act, 1986 and Rules and Regulations framed there under.
- BIS has been entrusted the job of formulation of National Standards under an Act of Parliament.

Objectives of Standardization

- Harmonious development of activities of standardization, marking and quality certification
- To provide new thrust to standardization and quality control
- To evolve a national strategy for according recognition to standards and integrating them with growth and development of industrial production and exports

Standardization at BIS



Process of Standards Formulation

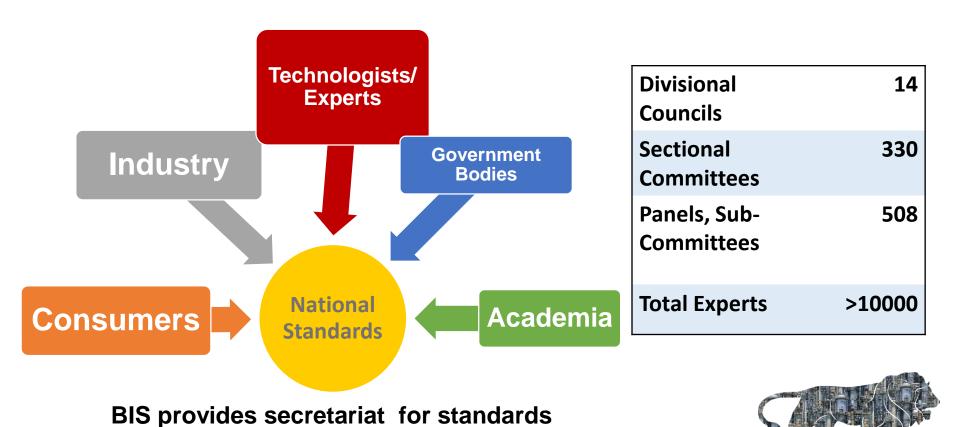
Standards are formulated through a process of consultation, using consensus principle, involving

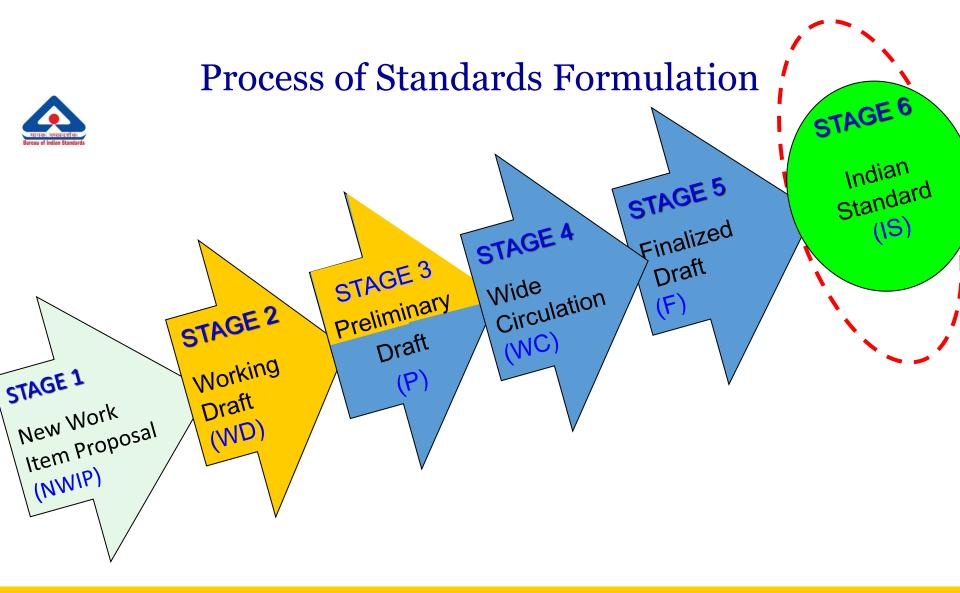
- Consumers
- **Regulatory & other Govt. Departments**
- **X** Industry
- Scientists
- **Technologists**
- **Testing organizations**

(BIS officer acts as Member Secretary)

National Standards Development

formulation





Stage 2-3: Building consensus among panel/committee members

Stage 3-5: Building national consensus

STANDARDS FORMULATION AT BIS

Technical Departments		At a Glance	
1) 2) 3)	Chemical Engineering Civil Engineering Electronics & Information Technology	Standards in force	19099
4)	Electro-technical Engineering	Harmonized with	
5)	Food and Agriculture	ISO/IEC Standards	5177
6)	Management and Systems		
7)	Mechanical Engineering		
8)	Medical Equipment & Hospital Planning	Division Councils	14
9)	Metallurgical Engineering	Sectional Committees	330
10)	Petrochemical, Coal & Related Products		
11)	Production and General Engineering		
12)	Textile Engineering		
13)		11	
14)	Water Resources		

STANDARD FORMULATION

<u>Important New Standards Formulated/Revised:</u>

- □ Composite Cement [IS 16415:2015]
- □ Organic Production System and Labelling of Organically Produced Products [IS 16550 Part-1:2016]
- ☐ Criteria for Earthquake Resistant Design of Structures Part 4 Industrial Structures Including Stack Like Structures [IS 1893 Part-4:2015]
- □ Vegetable (HPMC) Capsule Shells (IS 16414:2015)
- □ Revision of IS/ISO 9001:2015 (QMS) and IS/ISO 14001:2015 (EMS) in 15 days only

STANDARD FORMULATION

New subjects taken up for standard formulation in line with priority missions of the Govt.:

i) Make in India	
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- ☐ Renewable energy (Solar panels, Photovoltaic cells)
- ☐ Biofuels (IS 15607:2016)
- ☐ Auto components
- ☐ Electric machinery
- ☐ Construction
- ☐ Electronic system
- □ Textiles

STANDARD FORMULATION

Contd			
ii. Swachh Bharat Abhiyaan:			
☐ Solid waste management (IS 16557:2016)			
☐ Plastic waste management (IS 14534:2016)			
☐ Municipal Solid Waste Compost – Manure Grade (IS 16556:2016)☐ Street food vendors (IS 16066)			
☐ Coarse and Fine Aggregates for Concrete (IS 383:2016)			
iii. Smart Cities			
☐ Smart city indicators			

International Standards



International Organization for Standardization



International Electrotechnical Commission



International Telecommunication Union

The three together constitute World Standards Co-operation(WSC)

BIS MEMBER

of

ISO & IEC

INTERNATIONAL ACTIVITY

- India (BIS) is a member of International Organization for Standardization (ISO) and International Electrotechnical Commission (IEC)
- Membership of ISO/IEC Committees

	<u>ISO</u>	<u>IEC</u>
Participating (P)	441	87
Observer (O)	218	73

Secretariat responsibilities held for 8 ISO Committees
 (2 Technical Committees & 6 Sub-Committees)

Conformity Assessment at BIS

• Product Certification - More than 33000 Licences



- Management System Certification 1225 Licences
 - Quality Management System Certification (QMS)
 - > Environmental Management System Certification (EMS)
 - Occupational Health and Safety Management System (OHSAS)
 - **▶** Food Safety Management System (FSMS)
 - **▶** Hazard Analysis and Critical Control Points (HACCP)
 - > Service Quality Management Systems (SQMS)
 - > Energy Management Systems (EnMS)
- **Hallmarking** of Gold & Silver Jewellery −>21000 Licences



Certification schemes for Foreign Manufacturers & Indian Importers –
 600 Licences



Product Certification

- Started in 1955 under ISI Certification Marks Act, 1952
- Basically voluntary in nature except for 109 items under mandatory certification.
- Operated through a network of 05 Regional, 33 Branch throughout India with Headquarters at New Delhi.
- More than 33000 licences in operation

Mandatory BIS Certification

- In public interest GOI has notified 109 Products for mandatory conformance to the relevant Indian Standard.
- Automobiles Accessories: Automotive Tyres & Tubes
- Cement
- Diesel Engines
- Food & related products: Packaged Drinking Water, Packaged Natural Mineral Water Infant Milk Substitutes, Milk Powders, Infant Foods
- Household Electrical goods: Circuit Breakers, Energy meters, Cables, Lamps, CFL, Switches, Electric Iron, Room Heaters, Immersion water Heater, Electric Stoves
- Medical Equipment : Clinical Thermometers
- Oil Pressure Stoves
- Steel Cylinders, Valves and Regulators
- Steel Products

Management & Leadership Standards

• ISO 9001 : Quality

• ISO 14001 : Environmental

• IS 15700 : Service

• IS 15171 : 5-S

• IS 18001 : Occupational Health &

Safety(SA 8000)

• ISO 22000 : Food Safety

ISO/IEC 17025: Laboratory

ISO/IEC 27001: Information Security

• ISO 26000 : Social Responsibility

• ISO 31000 : Risk

• ISO 50001 : Energy



CERTIFICATION

Hall Marking

- More than 21000 Jeweller licences for hallmarking of Gold and Silver
- 475 Assaying and Hallmarking Centres recognized by BIS
- Provided full support to the Deptt. of Economic Affairs in launching Indian Gold Coin and Gold Monetization Schemes
- Standard operating procedures and policies w.r.t. the above schemes worked out, within the stipulated time frame

Components of BIS Hallmark

☐ BIS mark



- □ Purity /Fineness Mark 916
- ☐ Centre's Mark (example) MMTC
- ☐ Jeweller's Mark (example) TBZ

Fineness (in ppt) of gold vis-a-vis caratage

$$916 = 22 C$$

$$750 = 18 C$$

$$585 = 14 C$$

CERTIFICATION

Compulsory Registration Scheme (CRS)



- 30 Electronic products under CRS
- More than 9600 registrations granted under CRS

Initiatives:

- ☐ Simplification of forms for applying/renewal of registration
- ☐ New and simplified guidelines for appointment
 - Authorized Indian Representatives of foreign manufacturers
- ☐ Infrastructure and work force augmented
- □ New standard mark for CRS
- ☐ Simplified guidelines for labelling requirements
- Proposal for amending BIS Rules sent to DoCA

LABORATORY TESTING

- ☐ Eight BIS labs and 195 outside recognized labs
- ☐ Time bound plan for **Modernization and up gradation** of BIS Labs at a cost of **Rs. 10.27 crore**
- ☐ Two new labs being set up one for **LED products** at Bangalore and one for **IT products** at Hyderabad
- □ Existing sample management system which was one of the reasons for delay in grant of licences has been changed based on feedback of ROs/BOs

Other Activities

- WTO-TBT Enquiry Point
- Rajiv Gandhi National Quality Awards
- Sales of Publications
- Library
- Standards Promotion
- Publicity

RAJIV GANDHI NATIONAL QUALITY AWARD



Malcolm Baldrige Award in USA

Deming Prize in Japan European Quality Award.

Fundamental Concepts of Excellence

Leadership & Constancy of Purpose

Management by Processes & Facts

People Development & Involvement

Continuous Learning, Innovation & Improvement

Partnership Development

Corporate Social Responsibility

Results Orientation

Customer Focus

THANKS



