

Bureau of Indian Standards

- **The National Standards Body of India**
- **Bureau of Indian Standards (BIS)** took over work of **Indian Standards Institution (ISI)** through enactment of ***BIS Act (1986)*** by the **Indian Parliament**
- **ISI** was set up in **Jan 1947** by a resolution of the **Parliament**



STANDARDS FORMULATION

**PRESENT
FOCUS**

NEED BASED &
DEMAND DRIVEN STANDARDS

TIMELY
UPDATION

HARMONISATION WITH
INTERNATIONAL
STANDARDS

FASTER DEVELOPMENT
OF STANDARDS



STANDARDS STATISTICS

VITAL STATISTICS

STANDARDS PUBLISHED		18315
TECHNICAL COMMITTEES		312
TECHNICAL EXPERTS		>26000
TIME TAKEN TO FORMULATE INDIAN STANDARDS	PRIORITY ONE	12 MONTHS
	PRIORITY TWO	24 MONTHS
	OTHERS	28 MONTHS



TECHNICAL COMMITTEE STRUCTURE

- ❑ There are 14 Technical Sectors under SAC
- ❑ Encompass scope of ISO and IEC area of work

Each Sector consists of :

- Sectional Committee
- Sub-Committee
- Panel



COMPOSITION OF BIS COMMITTEES

Chairman

– From Independent Body

Member Secretary

- From BIS

Members:

- Manufacturers
- Laboratories/R&D institutions
- Govt./Regulatory Bodies
- Consumer/User Organisations
- Industry Associations
- Public Sector Units
- Consulting firms
- Professional Bodies
- Academic Institution



BASIC CONSIDERATIONS IN EVOLVING STANDARDS

- Consensus Principle
- Access to International Technology
- Research & Development
- Availability of indigenous materials & technology
- Co-ordination with other Levels of Standardization
- Consultations involving all Stakeholders
- Documents sent for public comments before finalization & also hosted on **BIS** web site



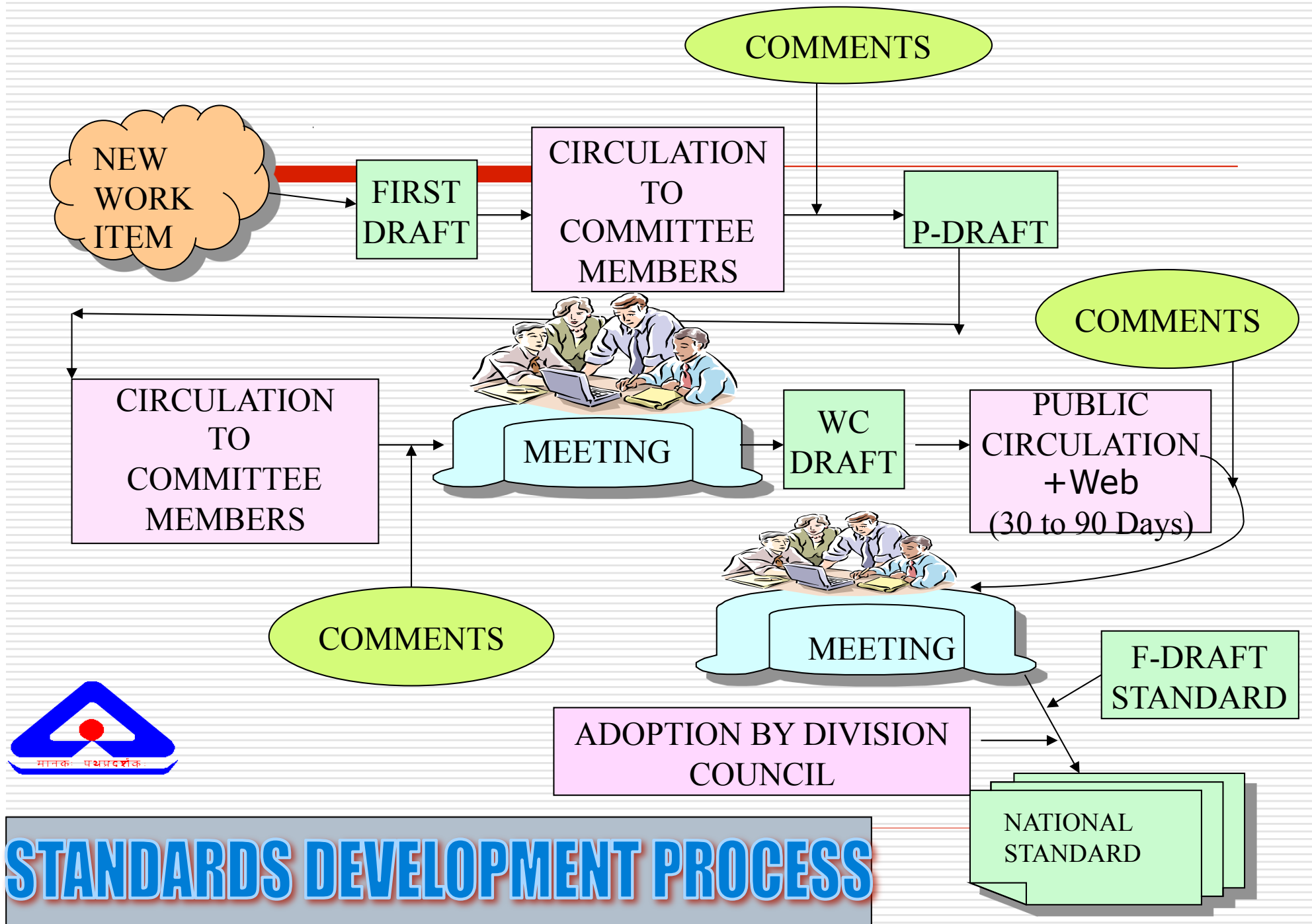
DIFFICULTIES ADOPTING ISO / IEC STANDARDS

- Non availability of raw materials to meet stipulated requirements
- Different standard test conditions
- Non availability of testing facilities
- Non availability of equivalent standards for cross-referred standard
- Difficulty with cross-referred standards other than ISO/IEC such as API ASME ASTM etc.

FORMULATION PROCESS

1. RECEIPT OF PROPOSAL
2. ESTABLISHMENT OF NEED
3. MEETING OF TECHNICAL COMMITTEE
4. PREPARATION OF WORKING/PRELIMINARY DRAFT STANDARD
5. CIRCULATION OF PRELIMINARY/WORKING DRAFT
6. MEETING OF TECHNICAL COMMITTEE
7. APPROVAL OF DRAFT FOR WIDE CIRCULATION
8. WIDE CIRCULATION OF THE DRAFT
9. MEETING OF TECHNICAL COMMITTEE
10. FINALIZATION OF THE DRAFT
11. ADOPTION BY DIVISION COUNCIL





LIGHTING COMMITTEE IN INDIA

- Corresponding Committee in IEC -TC 34
- Lamps & Auxiliaries - ETD 23
(Covers scope of TC 34, 34 A & C)
No of standards Published - 42
- Luminaires - ETD 24
(Covers scope of Sc 34 D)
No Standards Published - 49
- India is "P" Member in TC 34 & all SCs
- Panel for examining IEC documents



IEC/TC 34 ACTIVITY IN INDIA

- ☐ Access of IEC documents by BIS
- ☐ Dissemination to committee members done by BIS
- ☐ Comments coordinated by Member Secretary (BIS)
- ☐ If required approval from chairman taken before commenting to IEC



IEC/TC 34 VOTING PROCESS

- ☐ Documents circulated by BIS
- ☐ Comments received are examined by BIS
- ☐ In case of doubt/conflict consent of chairman taken before voting



ATTENDING IEC/TC 34 MEETINGS

- ☐ WG membership decided by ~~committee~~
- ☐ All members are informed about IEC meeting
- ☐ Request received are processed and decided by BIS for Indian delegation
- ☐ Coordination with IEC done by BIS
- ☐ BIS encourages participation by members



BIS sponsors Govt agencies for participation

IMPORTANT INDIAN STANDARDS ON LIGHTING

- ❑ IS 418 : Tungsten Filament Lamp (IEC 60064)
- ❑ IS 1534 : Ballast for Fluorescent Lamp (82)
- ❑ IS 13021 : Electronic Ballast (60928)
- ❑ IS 2418 : Tubular Fluorescent lamp (81)
- ❑ IS 9206 : Lamp cap (60061)
- ❑ IS 9900 : HPMV lamp (188)
- ❑ IS 9974 : HPSV Lamp (662)
- ❑ IS 15111: CFL (60968)



IMPORTANT INDIAN STANDARDS ON LUMINAIRE

- ❑ IS 1944 : Lighting of public thoroughfare
- ❑ IS 5077 : Decorative Lighting
- ❑ IS 7786 : Aerodrome Lighting Fittings
- ❑ IS 10322 : Luminaire series
- ❑ IS 13383 : Methods of Photometry of Luminaires



IMPORTANT INDIAN STANDARDS ON LIGHTING

- National Lighting Code (SP : 2010) –
Published just now



DRAFT INDIAN STANDARDS ON LED

- ❑ Terminology- 34A/1355/DTS
- ❑ SELF-BALLASTED LED-LAMPS FOR GENERAL LIGHTING SERVICES
 - Part 1 – Safety Requirements -
(34A/1354/CDV) (IEC 62560)
 - Part 2 - Performance Requirements -
(34A/1343/CD) (IEC 62612)



DRAFT INDIAN STANDARDS ON LED

□ LED MODULES FOR GENERAL LIGHTING

Part 1 - Safety Requirements - (IEC 62301)

Part 2 - Performance Requirements –
(based on WG Doc)

DRAFT INDIAN STANDARDS ON LED

- ❑ DC OR AC SUPPLIED ELECTRONIC CONTROL GEAR FOR LED MODULE - (IEC 61347 -2-13 & 34C/901A/DC)
- ❑ DC OR AC SUPPLIED ELECTRONIC CONTROL GEAR FOR LED MODULES – PERFORMANCE REQUIREMENTS (IEC 62384)
- ❑ METHOD OF MEASUREMENT OF LUMEN MAINTENANCE OF SOLID STATE LIGHT (LED) SOURCES - (LM 80)



DRAFT INDIAN STANDARDS ON LED

- ❑ LED LUMINAIRES FOR GENERAL LIGHTING
PURPOSES : Part 1 Safety Requirements
(34D/950/NP)
- ❑ LED-LUMINAIRES FOR GENERAL LIGHTING :
Part 2 Performance requirements
(WG Doc)



THANK YOU FOR KIND ATTENTION

