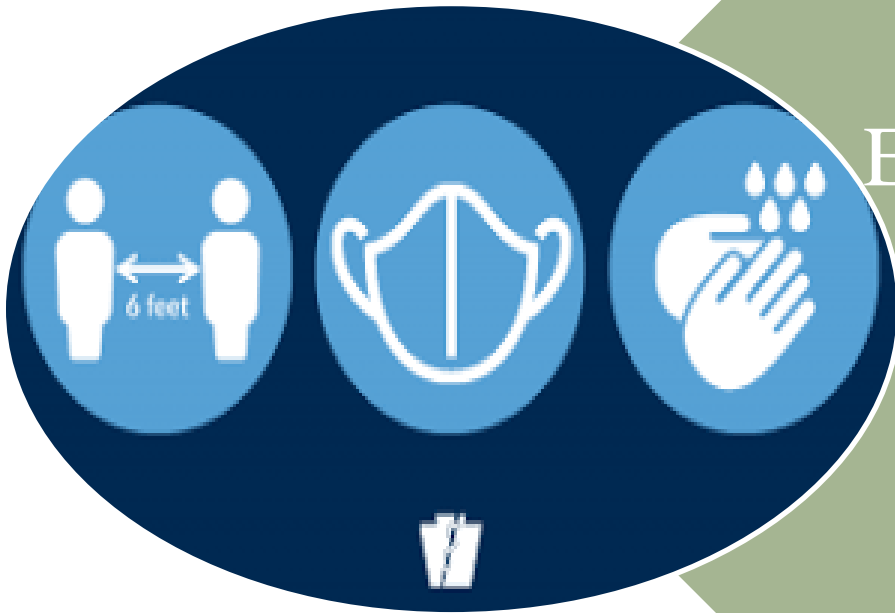




## Standardization, Testing, Metrological, Certification Activities of BSTI



Presented by  
Engr. Md. Saidul Islam  
Deputy Director  
(Engineering)  
Standards wing,  
BSTI.

# Functions of BSTI

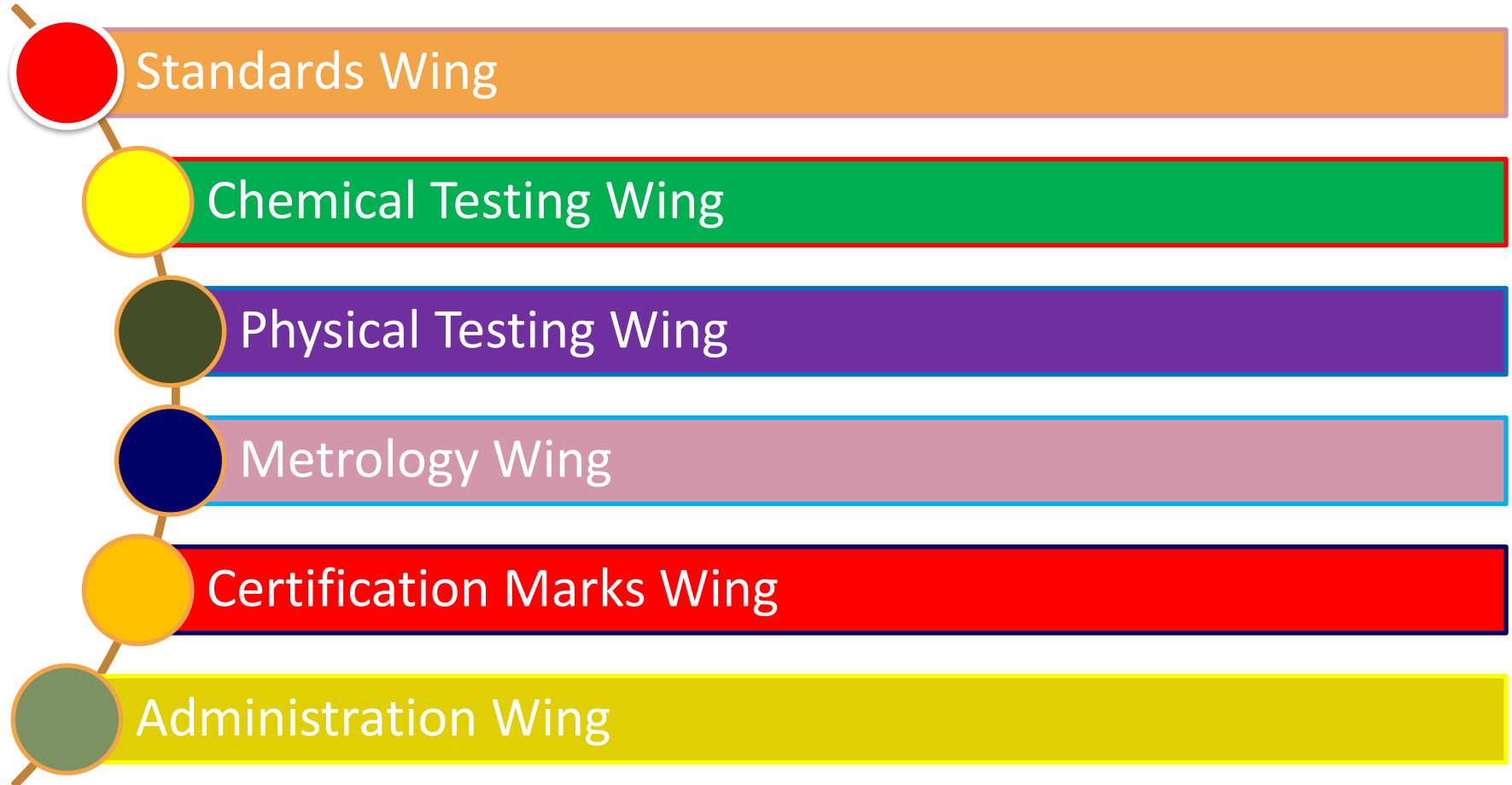
- ❖ Bangladesh Standards and Testing Institution (BSTI) is the National Standards Body(NSB) of Bangladesh under Ministry of Industries, Govt. of Bangladesh.
- ❖ Responsible for formulation of national standards with the help of experts
- ❖ Provide Testing of products and Certification activities.
- ❖ Provide metrology and calibration services over the country.
- ❖ Provide Management System Certification services i.e. ISO 9000,ISO 14000, ISO 22000.

# Functions of BSTI

- ❖ Developed more than 4008 National Standards
- 76 Sectional (Technical) committees are involved in formulation of national standards in different sectors
- ❖ Conformity Assessment Sectional Committee is one of the sectional committees responsible for formulation of national standards on Conformity Assessment and related subjects



# Administrative Structure of BSTI



## Funtion's of Standards Wing

- The vital wing responsible for development of standards on consensus based approach through technical committees.
- Almost all the activities of BSTI are based on National Standards which are developed under the supervision of Standards Wing.

The development of Bangladesh Standards covers the following sectors:

- Agricultural and food products
- Chemical products
- Electrical and Electronics goods
- Jute and Textile products
- Engineering (Mechanical and Civil) Item.

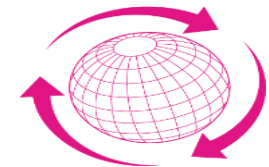
# Types of Standards



Standards are developed in three levels:

- **National Standards** at National level - Standard that is adopted by a national standards body and made available to the public.  
[ISO/IEC Guide 2:2004, definition 3.2.1.3]
- **Regional Standards** at Regional level - Standard that is adopted by a regional standardizing/standards organization and made available to the public.  
[ISO/IEC Guide 2:2004, definition 3.2.1.2]
- **International Standards** at Global level - International standard where the international standards organization is ISO or IEC or Codex.  
[ISO/IEC Directives, Part 2, 2004]

Reduce/Lift barriers to trade



# Development of National Standards

- ❑ At National level Bangladesh Standards (BDS) are developed by considering national perspective, manufacturers need, industrial development, protect consumer's health and safety and trade promotion.
- ❑ Around 1000 eminent Scientists, Engineers, Professors, Stakeholders and Experts are involved in the relevant Sectional/Technical Committees for development of National Standards.
- ❑ Standards development, revision of existing standards is a continual process. Every year BSTI sets a target for formulating the no. of Bangladesh Standards(BDS).

# Divisions of Standards Wing of BSTI

- ❑ Agriculture and Food
- ❑ Chemical
- ❑ Electrical and Electronics
- ❑ Jute and Textile
- ❑ Engineering (Mechanical and Civil), and
- ❖ Publication Section



# Standards Formulation

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

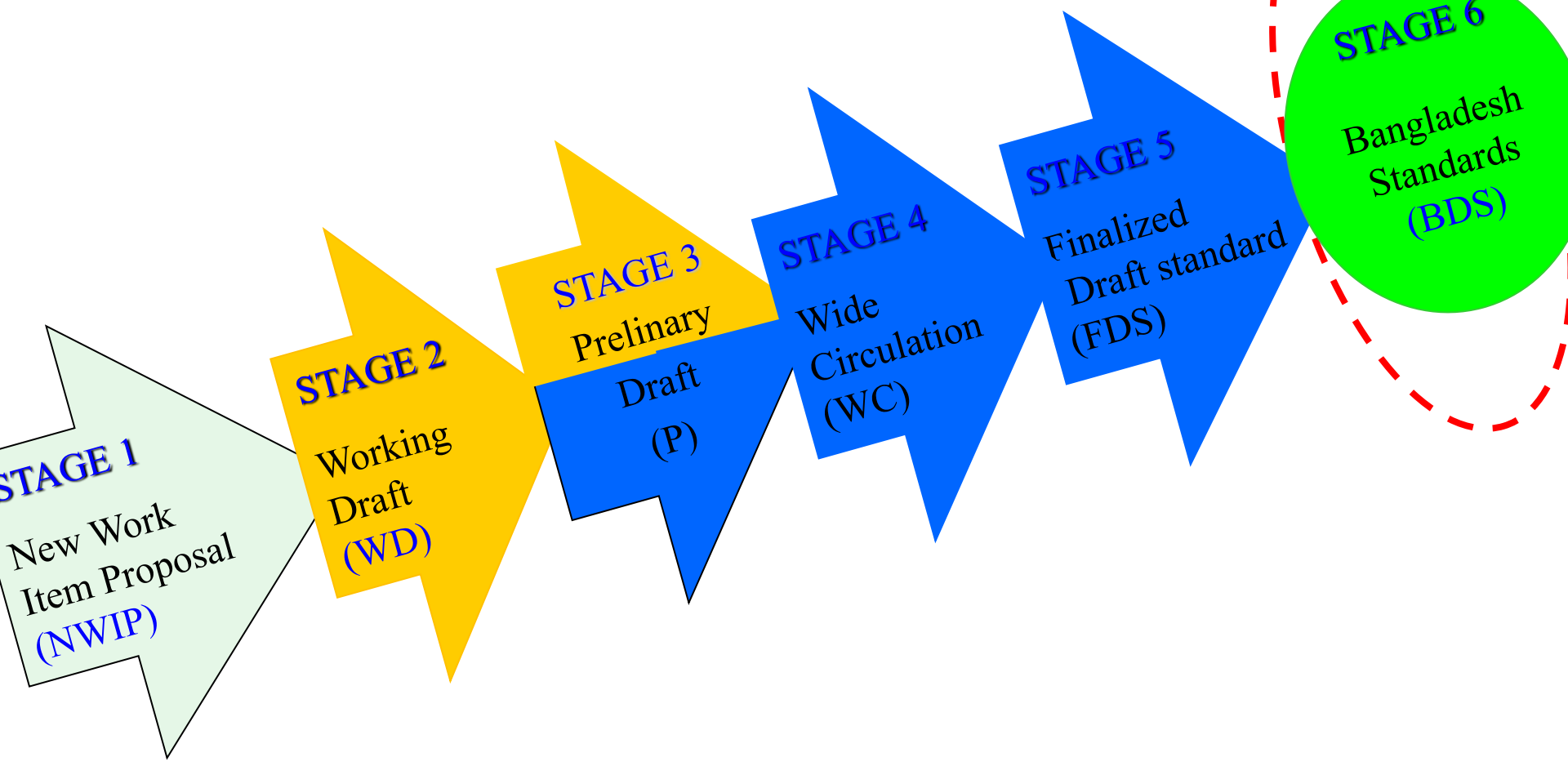
- ✦ Consumers
  - ✦ Regulatory & other Govt. Departments
  - ✦ Industry
  - ✦ Scientists
  - ✦ Technologists
  - ✦ Testing organizations
- (BSTI officer acts as Secretary)



## **Justification:**

- ✓ Think about the need
- ✓ Think about the users
- ✓ National/Global relevance

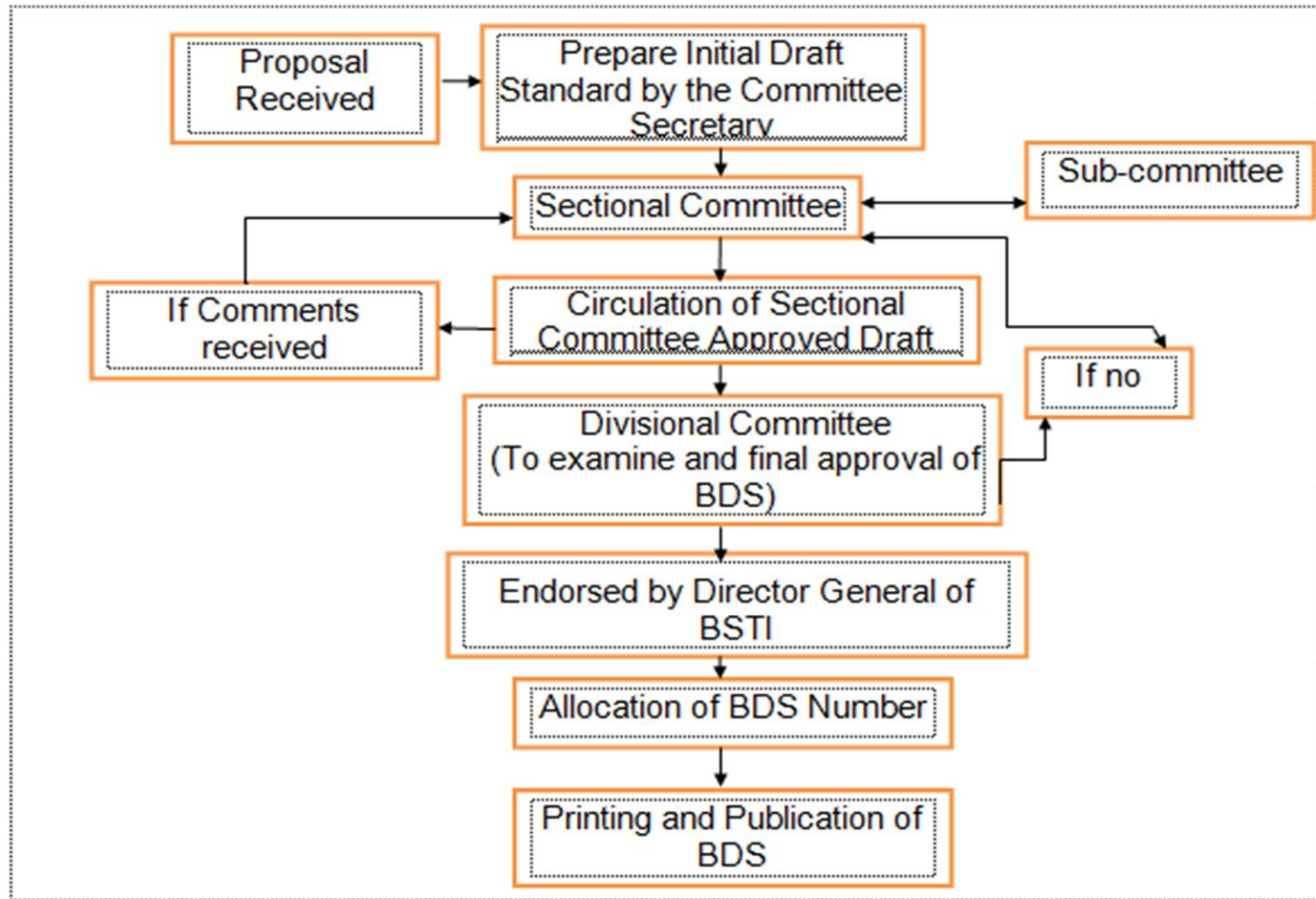
# Process of Standards Formulation



Stage 2-3: Building consensus among sub/sectional committee members

Stage 3-5: Building national consensus

# Standards Development Flow chart

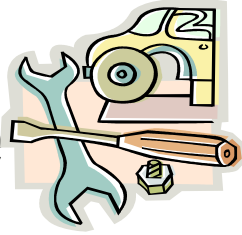




# Conformity Assessment Services provided by BSTI

Major Conformity Assessment services provided by BSTI are:

- ❖ Product Certification (for 229 Mandatory products)
  - ❖ Laboratory Testing
  - ❖ Management Systems Certification (ISO 9001, ISO 14001 and ISO 22000)
- 
- Other Government and private laboratories are also involved in testing and other conformity assessment services.
  - More than 20 Management Systems Certification Bodies (CBs) are operating in the country



# Maintenance Systematic review

- Collects information on standards from stakeholder
- **5 years** after publication, then every 5 years
- Global **relevance**
- Results sent to committee (DC/SC) for decision:
  - ✓ **confirm, revise or withdraw**
- **Decision needs to be communicated to the relevant Sectional committee**



# Systematic review

## Amendment:

- **Alters and/or adds**

e.g. to previously agreed technical provisions, etc.

## Revision:

- To **update** information e.g. Dates of references, etc.

**Follow same procedure for new standards**

# Standards Development Statistics

Statistical data of Bangladesh Standards (up to March 2021)

Sl. Nr.	Division	BDS	ISO	IEC	ISO/IEC	EN	CAC	ASTM	TOTAL (Division wise)
01.	Agri. and Food Division	307	169	-	-	-	137	-	613
02.	Chemical Division	515	323	-	4	4	-	14	860
03.	Jute and Textile Division	325	398	-	-	-	-	-	723
04.	Electrical and Electronics Division	189	38	266	91	-	-	-	584
05.	Engineering Division	221	843	-	-	160	-	1	1225
<b>GRAND TOTAL</b>		<b>1557</b>	<b>1771</b>	<b>266</b>	<b>95</b>	<b>164</b>	<b>137</b>	<b>15</b>	<b>4005</b>

At present 229 Products has been brought under Compulsory Certification marks Scheme by the Govt.

# International Relations

- ❑ BSTI is the member of ISO since 1974.
- ❑ BSTI is Associate Member of IEC since August 2018.
- ❑ BSTI is the member of Codex Alimentarius Commission (CAC) since 1975 and the National Codex Contact Point in Bangladesh.
- ❑ SAARC Members established the South Asian Regional Standards Organization (SARSO) on 25 August 2011.
- ❑ SARSO became operational in Dhaka with effect from 3 April 2014. Since then BSTI is actively participation in SARSO activities





# BSTI's MoU with other NSBs

Type of Agreement	NSBs/Countries
Memorandum of Understanding (MoU) (13-02-2006 Pakistan)	Pakistan Standards and Quality Control Authority (PSQCA), Pakistan
Memorandum of Understanding (MoU) (26-06-2007 Dhaka)	Bureau of Indian Standards (BIS), India
Bilateral Cooperation Agreement (BCA) (06-06-2015 Dhaka)	Bureau of Indian Standards (BIS), India
Technical Cooperation Program (TCP) (01-03-2016 Saudi Arabia)	Saudi Standards, Metrology and Quality Organization (SASO), Kingdom of Saudi Arabia
Memorandum of Understanding (MoU) (11-05-2016 Dhaka)	Nepal Bureau of Standards and Metrology (NBSM), Nepal
Memorandum of Understanding (MoU) 18-04-2017 Bhutan	Bhutan Standards Bureau (BSB), Bhutan
Memorandum of Understanding (MoU) (14-07-2017 Dhaka)	Sri Lanka Standards Institution (SLSI)
Memorandum of Understanding (MoU) (19-12-2017 Dhaka)	The Turkish Standards Institution (TSE),
Memorandum of Understanding (MoU) 01-05-2018 (through email)	ASTM (American Society for Testing and Materials) International, USA.
Memorandum of Understanding (MoU) (18-09-2018 China)	The Standardization Administration of China (SAC).



# Most some Bangladesh Standards

Sl. Nr.	Titles of the top-selling National Adoption	Number of copies sold (last six months)
1.	<b>BDS ISO 3720 Black tea — Definition and basic requirements</b>	27
2.	<b>BDS ISO/IEC 17025 General requirements for competence testing and calibration laboratories.</b>	11
3.	<b>BDS ISO/IEC 17021-1 Conformity assessment – Requirements for bodies providing audit and certification of management systems – Part 1: Requirements</b>	5
4.	<b>BDS ISO 6935-2 Steel for the reinforcement of concrete — Part 2: Ribbed bars</b>	4
5.	<b>BDS ISO 6079: Instant tea in solid form — Specification</b>	4
6.	<b>BDS ISO 9001 Quality management systems – Requirements</b>	3
7.	<b>BDS ISO 6892-2: Metallic materials — Tensile testing — Part 2: Method of test at elevated temperature</b>	2

# Publication Activities of BSTI

The activities of publication section are mainly imparted into three categories. These are:

- printing of publications;
- public relations and international communication; and
- library, documentation and technical information center.

printing of Bangladesh Standards (BDS), Annual Reports, Standards Catalogue of BSTI, Citizen Charter, Brochure, Diary and Magazines.

maintain liaison with ISO, print and electronic media and other institutions.

also responsible to collect and provide information as required by media person.

# Behind the scene but essential



Standardization  
Activities BSTI's



Thank you for your attention.

Slides prepared by: Engr. Md. Saidul Islam, Deputy Director (Engineering)