

Annual Report 2016-2017



**Standards
Boost
Business**



Bangladesh Standards and Testing Institution (BSTI)



ANNUAL REPORT 2016-2017

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Prepared and Compiled by:

1. Md. Khalilur Rahman, Director (Admin)
2. Md. Taher Jamil, Deputy Director (Admin)
3. Moinuddin Mia, Editor
4. Md. Tauhidur Rahman, Asst. Director (P&D) a.c

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Foreword

It is our pleasure that we are going to publish BSTI Annual Report 2016-2017 to meet the growing interest of the stakeholders as well as its development partners. This report reflects on the institution's history, organizational structure, performance and achievement.

BSTI, the only National Standards Body in the country came into being in 1985 through an ordinance (Ordinance XXXVII of 1985) with the merger of Bangladesh Standards Institution (BDSI) and the Central Testing Laboratories (CTL). Later, in 1995 Department of Agricultural Marketing and Grading, under the ministry of commerce was merged with BSTI. BSTI is entrusted with the responsibility of formulation of National Standards i.e. BDS, Testing and Certification of commodities (both mandatory and voluntary). Besides BSTI Provides Management System Certification (MSC) and Metrology Services, which are the vital organs of National Quality Infrastructure (NQI).

Accreditation is one of the new phenomena in free market economy in recent years. To cope with the new context BSTI has been striving to attain an international level of quality and professionalism in all its operations. BSTI had taken initiatives to get international recognition for its testing labs, product certification and management system certification. BSTI laboratories have awarded accreditation by National Accreditation Board for Calibration and Testing Laboratories (NABL), India as per international standards ISO/IEC 17025 in the field of chemical, mechanical and biological testing, covering 27 products and 161 parameters. BSTI has also achieved accreditation for its product certification system from National Accreditation Board for Certification Bodies (NABCB), India as per ISO/IEC 17065, till today 14 products have been accredited. BSTI is the only govt. organization that has started awarding management system certification. Initially, the management system certification schemes for ISO 9001, ISO 14001 and ISO 22000 were accredited by the Norwegian Accreditation (NA). Afterwards, MSC of BSTI got accreditation from Bangladesh Accreditation Board (BAB).

We want to expand our services to the customer's doorsteps. Aiming this, a number of development projects funded by the Bangladesh government are being implemented.

I do express my sincere gratitude to all concerned personnel, especially to editorial ones who contributed significant inputs of the report. We are hopeful that the readers will find this annual report informative. Any observation, views and recommendations would be highly appreciated and consider as precious contribution towards enriching the future publication of the report.

Sarder Abul Kalam
Director General



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Vision and Mission of BSTI

Vision

To be an international reputed organization for standardization and ensuring quality products.



Mission

To formulate standards on products and services, ensuring quality of product and measurements at the enhance quality of services at international level and protect consumer interest as well as facilitate national and international trade.



1. Brief History of BSTI

In 1955 in the then East Pakistan a regional branch of the Central Testing Laboratories (CTL) was set up in Dhaka to test and assess the quality of goods procured through import or produced locally. Thereafter, in 1957 the regional branch of the Pakistan Standards Institution (PSI) was established in Dhaka and in 1963 the Certification Marks Inspectorate for certifying industrial products was set up in Chittagong. In 1985 the government of Bangladesh consulted the stakeholders with a view to achieving effective results in the area of standards and conformity assessment of the products. Government abolished the Central Testing Laboratories (CTL) and the Bangladesh Standards Institution (BDSI) and established a new organization, i.e. the Bangladesh Standards and Testing Institution (BSTI), entrusting with all the responsibilities of these two defunct organizations by promulgating Ordinance no. XXXVII of 1985. Before that, in 1982, in order to implement the Metric System of Weights and Measures throughout the country, Government had promulgated The Standards of Weights and Measures Ordinance, 1982. In 1995 the department of Agriculture Grading and Marketing was also merged with BSTI.

Since 1985 BSTI has been functioning as the national body for standards, certification and metrology. During the last 31 years, this institution has strived hard to improve the quality of services, keeping in mind the responsibility it has been entrusted with. The present democratic government gave special emphasis to BSTI under the administrative control of the Ministry of Industries for upgradation, modernization and capacity building of the Institution. The authority has sincerely taken note of the government direction and by now it has achieved those improvements and international recognition to a considerable extent. A highly sophisticated National Metrology Laboratory (NML) has been established with the active financial and technical support from EU, NORAD, UNIDO and Govt. of Bangladesh. The testing laboratories - physical, chemical as well as micro-biological labs have received accreditation from NABL, India. The product certification system has similarly been accredited by NABCB, India. At first Management System Certification (MSC) has obtained accreditation from the Norwegian Accreditation. Hereafter MSC has obtained accreditation from BAB as well. The process of further accreditation of BSTI Labs and Products Certification is underway.

2. Laws Governing BSTI

- | | |
|---|--|
| <ul style="list-style-type: none"> (i) The Bangladesh Standards and Testing Institution Ordinance, 1985 (Ordinance No. XXXVII of 1985). (ii) The Bangladesh Standards and Testing Institution (Amendment) Ordinance, 1988 (Ordinance No. XI of 1988). (iii) The Bangladesh Standards and Testing Institution (Amendment) Act, 2003. (iv) The Standards of Weights and Measures Ordinance, 1982 (Ordinance No. XII of 1982). (v) The Standards of Weights and Measures (Amendment) Act, 2001. (vi) The Bangladesh Standards of Weights and Measures Rules, 1982. (vii) বাংলাদেশ স্ট্যান্ডার্ডস এন্ড টেস্টিং ইন্সটিটিউশন কর্মচারী চাকুরি প্রবিধানমালা, ১৯৮৯।
[The Bangladesh Standards and Testing Institution employees Service Rules, 1989] (viii) বাংলাদেশ স্ট্যান্ডার্ডস এন্ড টেস্টিং ইন্সটিটিউশন প্রবিধানমালা, ১৯৮৯। | <ul style="list-style-type: none"> [The Bangladesh Standards and Testing Institution Rules, 1989] (ix) বাংলাদেশ স্ট্যান্ডার্ডস এন্ড টেস্টিং ইন্সটিটিউশন কর্মচারী (অবসরভাতা ও অবসরজনিত সুবিধাদি) প্রবিধানমালা, ২০০২।
[The Bangladesh Standards and Testing Institution employees (Pension and Gratuity Rules, 2002)] (x) বাংলাদেশ স্ট্যান্ডার্ডস এন্ড টেস্টিং ইন্সটিটিউশন কর্মচারী চাকুরি প্রবিধানমালার (সংশোধিত) তফসিল, ২০০৫। (xi) বাংলাদেশ স্ট্যান্ডার্ড ওজন ও পরিমাপ (পণ্য সামগ্রী মোড়কজাতকরণ) বিধিমালা, ২০০৭।
[The Bangladesh Standards of Weights and Measures (Packaged Commodities) Rules, 2007.] (xii) Bangladesh Standards & Testing Institution (Management System Certification) Regulation, 2009. |
|---|--|
- Note: The Ordinance and act mention in the above Sl. no (i), (ii) & (iii) are being amended as The Bangladesh Standards and Testing Institution Act, 2017.



3. The Functions of the Institution

The functions of the Institution as defined in the Ordinance No. XXXVII of 1985 are:

- a. To set up Bangladesh Standards of quality and dimensions and prepare and promote the general adoption of standards on national and international basis relating to materials, commodities, structures, practices and operations and, from time to time, to withdraw, revise, alter and amend the same;
- b. To consider and recommend to the Government Bangladesh Standards for the measurement of length, weight, mass, volume, and energy;
- c. To promote standardization, quality control, metrology and simplification in industry and commerce;
- d. To secure compliance with the Bangladesh Standards adopted by the Institution by the producers and users;
- e. To implement Bangladesh Standards through the administration of a national certification mark scheme or inspection of goods or both;
- f. To provide or arrange facilities for examination, testing and inspection of commodities, processes and practices for any investigation, research or promotion of export that may be necessary and to issue test reports;
- g. To certify the quality of commodities, materials, produces, products and other things including food materials, whether for local consumption, export or import;
- h. To co-ordinate the efforts of producers and users for the improvement of materials, products, code of practice, appliances, processes and methods, so as to eliminate the national waste of material and time involved in the production of an unnecessary variety of patterns and sizes of articles for one and the same purpose;
- i. To establish and publish, in such manner as may be prescribed, the Bangladesh Standard Specifications in relation to any article or process or code of practice;
- j. To recognize, adopt or endorse as a Bangladesh Standard, in such manner as may be prescribed, any standard established by any other Institution in Bangladesh or in any foreign country, or by international organizations in relation to any article or process;
- k. To specify a Standard Mark to be called the Bangladesh Standards and Testing Institution Certification Mark which shall be of such design and contain such particulars as may be prescribed to represent a particular Bangladesh Standard;
- l. To grant, renew, reject, suspend or cancel, in such manner as may be prescribed, a licence for the use of Standard Mark;
- m. To make such inspection and take such samples of any material or substance as may be necessary to see whether any article or process in relation to which the Standard Mark has been used or proposed to be used conforms to the Bangladesh Standard or whether the Standard Mark has been improperly used in relation to any article or process with or without licence;
- n. To utilize, with the permission of the owners, the services of laboratories other than those maintained by the Institution and approve such laboratories for the purpose of the Institution;
- o. To make arrangements, or provide for the facilities, for the testing and calibration of precision instruments, gauges and scientific apparatus and for the issue of certificates in regard thereto so as to make them comply with the required standards;
- p. To undertake execution of any trust or any agency business which it may consider conducive to the attainment of its objectives;
- q. To co-operate with any person, association, or organization outside Bangladesh having objectives similar to those for which the Institution is established; and
- r. To do all such acts and things ancillary or incidental to any of the aforesaid functions.

4. Organs of BSTI

- a. BSTI Council
- b. The Committees
- c. The Director General and Staff

Following are the duties and responsibilities of these organs:

4.1 BSTI Council

- a. The general direction and administration of the affairs and functions of the Institution is vested in a Council which may exercise all powers and perform all functions which may be exercised or performed by the Institution
- b. The Council in discharging its duties, is guided by such instructions as given to it by the Government from time to time.

- c. The Council consists of the following members, namely:
- The Minister in charge of Ministry of Industries, ex-officio, who shall also be the Chairman of the Council;
 - The State Minister, Ministry of Industries, ex-officio, who shall also be the Vice-Chairman of the Council;
 - The Secretary, Ministry of Industries, ex-officio, who shall also be the Vice-Chairman of the Council;
 - The Director General, ex-officio, who shall also act as the Secretary of the Council; and more
 - 29 Representatives from different Ministries, Departments, Business Chambers, Scientific

Organizations, Universities and relevant Institutions.

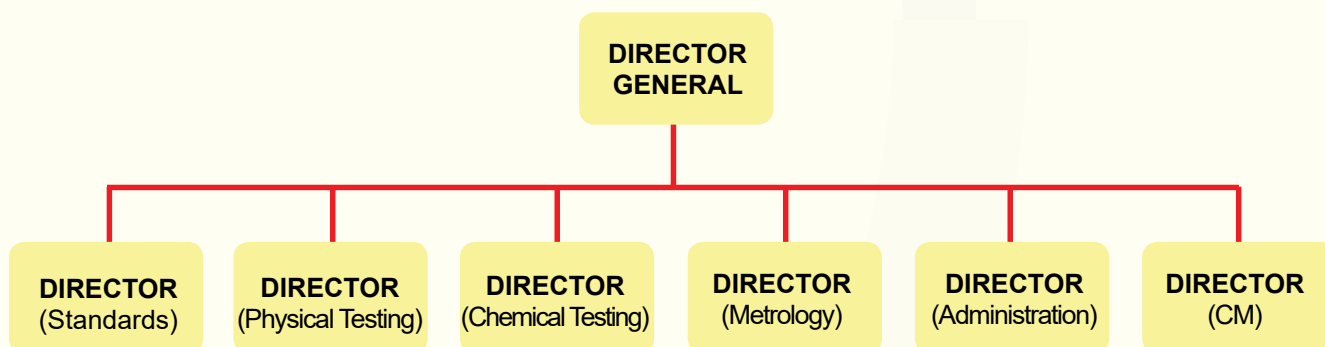
4.2 The Committees :

- The Council appoints such committees, as it thinks fit to assist it in the discharge of its functions.
- Each committee is headed by a Chairman and consists of such members as determined by the Council.
- The Chairman and Members of a Committee holds office for such period as determined by the Council.

4.3 The Director General and Staff:

The Director General is the Chief Executive Officer of the Institution and is responsible for the proper administration of the Institution. The Director General is appointed by the Government on such terms and conditions as it may determine.

BSTI performs its responsibilities through 6 (six) wings. Each wing is headed by a Director. The wings are as follows:



Under these 6 wings following divisions/sections are working:

No.	Wing	Division
1.	Standards Wing	a. Agriculture and Food Division
		b. Jute & Textile Division
		c. Chemical Division
		d. Electrical, Electronics and Technical Division
		e. Civil and Mechanical Engineering Division
		f. Publication Section

2.	Physical Testing Wing	a.	Electrical and Electronics Engineering
		b.	Civil, Physical and Mechanical Engineering
		c.	Textile
3.	Chemical Testing Wing	a.	Chemical
		b.	Food and Bacteriological
4.	Metrology Wing	a.	Legal Metrology
		b.	Metrology Lab and Training
		c.	Industrial and Scientific Metrology
5.	Certification Marks (CM) Wing	a.	Certification Marks
		b.	Motivation and Training
6.	Administration Wing	a.	Administration
		b.	Accounts & Audit
		c.	Planning & Development
		d.	Store
		e.	Management Systems Certification cell

4.4 Head Office, Regional Offices and District Offices

The Headquarters of the Institution is located at Dhaka. It has 6 Regional Offices at the Divisional Headquarters. Address and other details of the head office and regional offices are given below:

Head Office

Bangladesh Standards and Testing Institution
Maan Bhaban
116/A, Tejgaon Industrial Area,
Dhaka-1208.

Fax : (880-2)-9131581

E-mail : dg@bsti.gov.bd, bsti@bangla.net

Website: www.bsti.gov.bd

Phone : 8870275, 8870277, 8870278, 8870279, 8870280, 8870281, 9131582.

Regional Offices

- Dhaka Divisional Metrology Inspectorate
BSTI Annex Building
116/A, Tejgaon Industrial Area,
Dhaka-1208.
Phone : 8870300
Fax: 88 02 8870676
E-mail: dmi@bsti.gov.bd
- BSTI Regional Office, Rajshahi
Bypass Road, Nawdapara, Sapura,
Rajshahi.
Phone : 0721-861397, 0721-561398
E-mail: rajshahi@bsti.gov.bd
- BSTI Regional Office, Chittagong
Jamburi Ground, Agrabad,
Chittagong.
Phone : 031-710695, 031-721137
E-mail: chittagong@bsti.gov.bd
- BSTI Regional Office, Barisal
BSCIC Industrial Park, Kaunia,
Barisal.
Phone : 0431-65176
E-mail: barisal@bsti.gov.bd
- BSTI Regional Office, Khulna
62, Old Jessore Road, Khalishpur,
Khulna.
Phone : 041-762152, 041-761542
E-mail: khulna@bsti.gov.bd
- BSTI Regional Office, Sylhet
BSCIC Industrial Park,
Khadimnagar, Sylhet.
Phone : 0821-2870935.
E-mail: sylhet@bsti.gov.bd

District Offices

- BSTI District Office, Bogra
Old Upozila Bhaban
Kaigary, Bogra.
- BSTI District Office, Kishoreganj
Old Court Building
Kishoreganj-2300.
- BSTI District Office, Rangpur
House No-46/2, Road No-01
Porjoton Purbapara
Post- Sadar
Rangpur-5400.
- BSTI District Office, Comilla
Holding No.21/1, Ward No-23
Dhanpur Kotbari Road
Comilla-3502.
- BSTI District Office, Faridpur
BSCIC Industrial Area, Kanaipur
Faridpur-7801.

5. Organizational Map of BSTI



6. Wings of BSTI and their functions

6.1 Standards Wing

Standards Wing is responsible for development of standards on consensus based approach through its Sectional (Technical) and Divisional Committees. Apart from development of national standards, emphasis is laid also on periodic review of standards to keep them at par with updated technological developments. Majority of these standards are harmonized from International standards. BSTI has developed more than 4100 standards till June 2017. Approximately 50% of the existing Bangladesh Standards (BDS) have been harmonized with International and Regional Standards (ISO, IEC, CAC, EN etc.) to facilitate acceptance of Bangladeshi products in the International Market.

The development of Bangladesh Standards covers the following sectors:

- Agriculture and Food
- Chemical
- Electrical and Electronic
- Jute and Textile
- Engineering.

Standard:

Document, established by consensus and approved by a recognized body, that provides, for common and repeated use, rules, guidelines or characteristics for activities or their results, aimed at the achievement of the optimum degree of order in a given context.

Note: Standards should be based on the consolidated results of science, technology and experience, and aimed at the promotion of optimum community benefits.

[SOURCE: ISO/IEC Guide 2:2004, definition 3.2]

6.1.1 Standards Development Committees

73 Sectional (Technical) Committees under 6 Divisional Committees have been assigned to perform the task. There are also two national policy committees; such as National Codex Committee (NCC) and Bangladesh National Electrotechnical Committee (BNEC). These committees comprise stakeholders mainly from industries, research organizations, business society, academic institutions, consumer society, testing laboratories and the government entities.

The existing Divisional Committees are as follows:

- Agriculture and Food
- Chemical
- Jute and Textile
- Electrical and Electronic
- Engineering (Mechanical)
- Engineering (Civil).

Sectional (Technical) Committees

Sectional (Technical) Committees are appointed by the Divisional Committees of BSTI, responsible for developing the Bangladesh Standards. Each consists of one Chairman and a number of experts in their respective fields drawn from various organizations.

6.1.2 List of Sectional (Technical) Committees

(a) Agricultural and Food Products Division

1.	AFSC-1	Cereals, Pulses and their Products
2.	AFSC-2	Oil seeds and their Products
3.	AFSC-3	Milk and Milk Products
4.	AFSC-4	Fish and Fisheries Products
5.	AFSC-5	Meat, Poultry and their Products
6.	AFSC-6	Spices and Condiments
7.	AFSC-10	Tea and Coffee
8.	AFSC-11	Sugar and Sugar Industries Products
9.	AFSC-13	Animal Feeds
10.	AFSC-15	Fruits and Vegetables Products
11.	AFSC-16	Starch, Derivatives and their by-products
12.	AFSC-17	Forest Products
13.	AFSC-18	Food Colour, Artificial Sweeteners and Additives
14.	AFSC-20	Pesticides
15.	AFSC-21	Tobacco and Tobacco Products
16.	AFSC-22	Soft Drinks and Beverages
17.	AFSC-23	Irradiated Food Products



(b) Chemical Division

1.	CSC-1	Fine Chemicals
2.	CSC-2	Rubber and Plastics
3.	CSC-3	Paper, Pulp, Board and Stationery Products
4.	CSC-4	Leather, Footware and Leather Products
5.	CSC-5	Paints and Allied Materials
6.	CSC-6	Glass and Ceramics
7.	CSC-7	Lubricants and Related Products
8.	CSC-8	Soap and Detergent
9.	CSC-9	Mineral, Fuels and Petroleum Products
10.	CSC-10	Cosmetics and Related Products
11.	CSC-11	Ink and Allied products
12.	CSC-12	Fertilizer and Allied Products
13.	CSC-13	Oils, Fats and Allied Products
14.	CSC-14	Adhesives

(c) Jute and Textile Division

1.	JTSC-1	Jute Products
2.	JTSC-2	Textile Products
3.	JTSC-3	Raw Jute
4.	JTSC-4	Jute Mills Spares and Accessories
5.	JTSC-5	Textile Test Methods
6.	JTSC-6	Yarn, Rope, Twine and Cordage's
7.	JTSC-7	Knit and Knit Products
8.	JTSC-8	Garments Products
9.	JTSC-9	Silk Products
10.	JTSC-10	Handloom Products
11.	JTSC-11	Textile Mills Accessories
12.	JTSC-12	Capital Machineries
13.	JTSC-13	Raw Cotton
14.	JTSC-14	Man-Made Fibre and Products

(d) Electrical and Electronics Division

1.	EESC-1	Transformers
2.	EESC-2	Electric Lamps and Accessories
3.	EESC-3	Switchgear and Protective Devices
4.	EESC-4	Dry Cells and Accumulators
5.	EESC-5	Electric Fans and Appliances
6.	EESC-8	Electric Wires and Cables
7.	EESC-9	Insulators and Insulating Materials
8.	EESC-10	Electronics
9.	EESC-12	Rotating Electric Machines
10.	EESC-13	Electric Measuring Instruments
11.	EESC-14	Telecommunication
12.	EESC-15	Computer Related
13.	EESC-16	Information Technology
14.	EESC-17	Conformity Assessment
15.	EESC-18	Power Electronics

(e) Engineering (Mechanical) Division

1.	MESC-1	Metallic Sheet, Plate, Wire and Allied Products
2.	MESC-2	Tools, Equipment and Measuring Instruments
3.	MESC-3	Security Item
4.	MESC-4	Pump, Engine and Agricultural Implements
5.	MESC-5	Specialized Products and Household Appliances
6.	MESC-6	Road Vehicles and Transportation Item
7.	MESC-7	Sports Goods

(f) Engineering (Civil) Division

1.	CESC-1	Clay Bricks, Hollow Clay Bricks, Clay Ceramic Tiles and Cement Blocks
2.	CESC-2	Cement and Cementing Materials
3.	CESC-3	Structural Steel Bars, Sections and other Products
4.	CESC-4	Pipe and Pipe Fittings
5.	CESC-5	Sanitary Ware Appliances and Water Fittings
6.	CESC-6	Fire Fighting and Equipment
		Safety

6.1.3 Stages of Development of Bangladesh Standards

Stage 1: Proposal stage –

Recommendations for subjects of new Bangladesh Standards are solicited from any stakeholders i.e. the public/private/individual/research institutions. The new project or work programmes are approved by the Divisional Committees;

Stage 2: Preparatory stage –

After approval by the Divisional Committee, the work is then allotted to the existing sectional (technical) committee for preparing draft. The sectional (technical) committee prepares the draft standard in consultation with BSTI or alternatively, the committee may appoint a subcommittee including the concerned officials of BSTI;

Stage 3: Committee stage –

After the draft has been prepared by the committee, it is then discussed and reviewed thoroughly within the committee and then passes it on to the Secretariat (BSTI) for editing and wide circulation;

Stage 4: Enquiry stage –

The draft Standard is circulated for comments among relevant stakeholders; i.e. industries, associations, universities, research institutions and other concerned organizations/individuals within a period of 60 days according to the WTO/TBT agreement. The aim of wide circulation is to inform every interest in the country and abroad. The views and comments received are placed in the sectional (technical)/divisional committee. The sectional (technical)/divisional committee systematically examine and reviews these comments and if necessary, incorporated into the draft, which is amended accordingly and gives the initial/final approval;

Stage 5: Approval stage –

After approval by the Divisional Committee, it is then placed to the Director General of BSTI for endorsement as a Bangladesh Standard (BDS). Once endorse, it becomes a national standard;

Stage 6: Publication stage –

After endorsement only minor editorial changes, if and where necessary, are introduced into the final text. The approved standard is finally published and made available for sale to the stakeholders.

Review:

All Bangladesh Standards are reviewed at least every five years to meet the need of the time. A majority of the members of the sectional (technical)/divisional committee decides whether a standard should be reviewed (amendment/revision/reaffirm/withdrawn). When a revision is on the agenda, the concerned Bangladesh Standard is subjected to the same procedure as applicable to new one.

Flow Chart for the Development of Bangladesh Standards (BDS)



6.1.4 Publication Activities of BSTI

The activities of publication section are mainly imparted into three categories. These are (i) printing of publications; (ii) public relations and international communication; and (iii) library, documentation and technical information center.

The publication section under the Standards Wing deals with printing of Bangladesh Standards (BDS), Annual Reports, Standards Catalogue of BSTI, Citizen Charter, Brochure, Diary and Magazines. This section is also performs all necessary public relations activities (PR work) of BSTI, maintain liaison with print and electronic media and other institutions. Besides these, send press release to the media about various important meeting, seminar, symposium etc. and also responsible to collect and provide information as required by media person.

The publication section plays a vital role to observe World Standards Day and World Metrology Day in every year in befitting manner. This section also related to sales of publications.

6.1.5 Library, Documentation and Technical Information

BSTI Library has a vast wealth of documents. Library, documentation and technical information centrally collects standards, documents and other technical publications from home and abroad. This center is providing documentation support including standards to public and private sector organization and individuals. A lot of reference books, administrative books, periodical handbooks, dictionaries, glossaries; encyclopedias, related Gazette and other rules and regulations published by Bangladesh Government are stored in this library. Standards of ISO, IEC, OIML and CODEX are stored in the library. Besides these, Standards from India (IS), United States of America (ANSI & ASTM), United Kingdom (BS), Australia (AS), Germany (DIN), Japan (JIS), Republic of Korea (KS), Malaysia (MS), New Zealand (NZ), Pakistan (PS), Saudi Arabia (SAS), Singapore (SS), Sri-Lanka (SLS), Thailand (TIS) and



many other countries are available in BSTI library.

BSTI personnel, public and private sector organizations, persons carrying out academic and scientific research, students and other parties related to standards and standardization activities have free access to the Library.

6.1.6 Sustaining Member

BSTI has a Sustaining Membership programme for persons or organizations aiming to have increased activities of BSTI, financial benefit and co-operation. The following persons or organizations may become a Sustaining Member of BSTI.

Scientist, Researchers, University Teachers, Consumers, Business Association, Stakeholders, Industry and various Business Organizations.

Benefits of Sustaining Members are as follows:

- i) Preliminary membership for one year (financial year). It is renewable for every year.
- ii) A 25% discount on sale price is given for any Bangladesh Standards (BDS).
- iii) A 25% discount for advertisement in BSTI publication is also given.
- iv) Any publication of BSTI other than Standards is given free of cost.
- v) Sustaining Membership fee is Tk. 2,500.00 per year. The amount is to be paid in favour of Bangladesh Standards and Testing Institution in Cash or by Pay Order/DD/Cheque etc.

6.1.7 BSTI's Participation in Regional and International Standardization Activities:

As a member of South Asian Regional Standards Organization (SARSO), BSTI actively takes part in all Sectoral Technical Committee (STC) meetings of SARSO. This year BSTI delegates participated in the SARSO STC Meeting on Electrical, Electronics, Telecom and IT held in Karachi, Pakistan on 25-26 July 2017. Moreover, two more STC meetings (SARSO STC on Food and Agricultural Products, and SARSO STC on Jute, Textiles and Leather) are scheduled to be held

at the last quarter of this year in India. BSTI delegates also participated in a number of meetings arranged by the Codex Alimentarius Commission (CAC) in this year.

As a member body of ISO, BSTI also participate in ISO international standardization activities. Currently, BSTI is Participating Member (P-member) of 8 ISO committees and Observing Member (O-member) of 21 ISO committees. Director General of BSTI has participated in the 40th ISO General Assembly Week held on 18-22 September, 2017 in Berlin, Germany. BSTI is 'Affiliate Plus member' of International Electrotechnical Commission (IEC). Necessary steps have been taken to upgrade BSTI's membership status to 'IEC Associate Member'.

6.1.8 Promotional Activities:

BSTI jointly organized an awareness program with SARSO on 24 April 2017, under 'SESA: Trade Promotion through Standardization' program supported by the Swedish International Development Cooperation Agency (Sida) and implemented by the Swedish Standards Institute (SIS) on 'Importance of ISO 14001 and its Impact on Environment and Trade'. BSTI also successfully organized a very important national conference relating to food safety titled 'Bangladesh Food Safety Conference –2017' at Pan Pacific Sonargaon Hotel on 23-24 August 2017 under joint collaboration with FICCI, MCCI, and BFSA. The purpose of the conference was to facilitate discussion among the regulatory bodies,

food business operators, other relevant agencies and academics on how to develop an efficient and effective food safety control system.

6.1.9 'e-Catalogue and BDS Sales Project':

Standards Wing of BSTI is implementing a project titled 'e-Catalogue and BDS Sales' with the help of a2i Program of Prime Minister's Office, with a view to simplify the services provided by BSTI regarding sales of Bangladesh Standards (BDS). After implementation of the project, stakeholders will be able to choose and buy BDS through online electronic applications. Ultimately, this will save Time, Cost and Visit of the stakeholders.

6.1.10 BSTI's Agreement/MoU/TCP with other NSBs:

This year BSTI has signed Memorandum of Understanding (MoU) with Bhutan Standards Bureau (BSB), Bhutan and Sri Lanka Standards Institution (SLSI), Sri Lanka. So far BSTI has signed MoU/BCA/TCP with the National Standards Bodies (NSBs) of Pakistan, India, Saudi Arabia, Nepal, Bhutan and Sri Lanka in the fields of Standardization, Conformity Assessment and Technical Cooperation. Details of these are as follows:

Type of Agreement	NSBs/Countries	Title of the MoU/Agreement
Memorendum of Understanding (MoU)	Pakistan Standards and Quality Control Authority (PSQCA), Pakistan	Memorendum of Understnding between Bangladesh Standards and Testing Institution (BSTI) and Pakistan Standards and Quality Control Authority (PSQCA) in the field of Standardization and Quality assurance.
Memorendum of Understanding (MoU)	Bureau of Indian Standards (BIS), India	Memorendum of Understnding between Bangladesh Standards and Testing Institution (BSTI) and Bureau of Indian Standards (BIS).
Bilateral Cooperation Agreement (BCA)	Bureau of Indian Standards (BIS), India	Agreement between Bangladesh Standards and Testing Institution and Bureau of Indian Standards in the field of Standardization and Conformity Assessment.
Technical Cooperation Program (TCP)	Saudi Standards, Metrology and Quality Organization (SASO), Kingdom of Saudi Arabia	Technical Cooperation Program between the Saudi Standards, Metrology and Quality Organization (SASO) and Bangladesh Standards and Testing Institution (BSTI).
Memorandum of Understanding (MoU)	Nepal Bureau of Standards and Metrology (NBSM), Nepal	Memorandum of Understanding between Bangladesh Standards and Testing Institution (BSTI) and Nepal Bureau of Standards and Metrology (NBSM).
Memorandum of Understanding (MoU)	Bhutan Standards Bureau (BSB), Bhutan	Memorandum of Understanding between Bangladesh Standards and Testing Institution (BSTI) and Bhutan Standards Bureau (BSB).
Memorandum of Understanding (MoU)	Sri Lanka Strandards Institution (SLSI)	Memorandum of Understanding (MoU) between Bangladesh Standards and Testing Institution (BSTI) and the Sri Lanka Standards Institution (SLSI) on Technical Cooperation.

6.2 Physical Testing Wing

The function of Physical Testing Wing is to ensure the quality of civil & mechanical products, electrical & electronic products and Textile products by testing with modern equipments as per national and international standards.

The Physical Testing Wing consists of 3 (three) Divisions as:

- 1) Electrical, Electronics and Engineering Division.
- 2) Civil, Physical and Mechanical Engineering Division.
- 3) Textile Division.

6.2.1 Electrical, Electronics and Engineering Division

The Electrical, Electronics and Engineering Division perform the functions through

the following laboratories.

Refrigerator Testing Laboratory:



Main equipments of this laboratory:

- Test chamber
- Air Handling Unit
- Electric System
- Measuring & Controlling Equipment
- Data Processing & PC Equipment

Product:

Household Refrigerator

Test facilities:

Temperature performance test, Energy consumption test, Ice making test Pull down test, Condensation test.

Motor Testing Laboratory:



Fig: Motor Testing Unit (0.18kW to 10kW Electric Motor)

Main equipments of this laboratory:

- Electric Motor Test Bench with Computer control
- Winding's Temperature Rise Tester
- AC Dielectric Strength Test Set
- Insulation Resistance Tester
- Low Resistance Micro-ohmmeter
- True RMS Digital Multi meter
- Leakage Current and Multi-function Tester
- Standard Load for Motor: Capacity: 1 kW, 2 kW, 5 kW & 10 kW
- 30 kVA Voltage Stabilizer

Products:

AC Electric Motor (0.18kW to 10kW)

Test Facilities:

Resistance at no-load test, No-load test, Load test, Locked rotor test, Test at reduced voltage, Maximum torque test, Temperature rise test, Motor winding heating test, RPM measurement, Earth continuity test (stand-alone), Insulation resistance test (stand-alone), Dielectric strength test (stand-alone), Leakage current test (stand-alone)

LAS Battery Testing Laboratory:



Fig: High Rate Discharging Machine of 2000A

Main equipments of this laboratory:

- Battery Cycle Life Tester
- Discharge Capacity Tester
- Reserve Capacity Tester
- Multi Channels Formation Equipment
- High Rate Discharger

Products:

LAS Battery

Test Facilities:

Effective capacity test, Effective reserve capacity test, Cranking performance test, Charge retention test, Endurance test, Electrolyte retention test and charge acceptance test.

Enameled Round Copper Winding Wire Testing Laboratory



Fig: High Voltage Breakdown Tester Pin-Hole Tester

Main equipments of this laboratory:

- Cut through Tester
- High Voltage Breakdown Tester
- Pin-Hole Tester
- Peel Tester
- Twister
- Jerk Tester
- Springiness Tester
- Tensile Testing Machine

Products:

Enameled Round Copper Winding Wire

Test Facilities:

Elongation in percent, Conductor diameter, Jerk test, Peel test, Cut through test, Springiness test, High voltage test, Continuity of covering test and Heat shock test

Bakelite Product Testing Laboratory:



Fig: Switch & Receptacles Tester

Main equipments of this laboratory:

- Switch & Receptacles Tester
- Glow Wire Tester
- Impact Tester

Products:

Switch, Socket (5A, 13A & 15A), Plug (5A, 13A & 15A), etc

Test Facilities:

Endurance Test, Making & breaking capacity test, Glow Wire Test and Impact Test



Transformer Testing Laboratory

Main equipments –

- Loss Measuring Equipment
- High Voltage Testing Set
- Clamp on Meter
- Megger
- Transformer Oil Testing Machine

Products:

Single Phase Transformer and Three Phase Transformer

Test facilities:

High voltage test, Insulation test, No load loss test, full load loss test and Turn ratio test.

Cable Testing Laboratory

Main equipments of this laboratory:

- Milli-ohm Meter
- Circuit Breaker Test Bench
- Digital Multimeter
- Digital Storage Oscilloscope
- Milli-ohm Meter
- Digital Balance
- Impedance Meter
- Tensile Testing Machine
- Transformer Oil Testing Machine
- High Voltage Testing Machine
- Auto Transformer
- Hot Water Bath
- Automatic Voltage Stabilizer
- Flammability Test Chamber for Cable
- Tumbler Switch Endurance Testing Machine

Products:

PVC insulated cables, Flexible cord, Power cables, Enamelled round copper, winding wire, Aluminum conductor, Electrical Accessories (Switch, Socket, Plug, Ceiling rose, etc), Main switch, UPS, IPS, Voltage stabilizer.

Test Facilities:

Conductor resistance, Annealing test, Dimension, Tensile strength, Elongation at break of insulation & sheath, Insulation resistance, High voltage (Upto 50 kV), Flammability test, Mandrel winding test, Di-electric strength of transformer oil, No load loss & Full load loss of transformer, Temperature rise (Oil & Winding of transformer), Output voltage variation, Dimensions, Mass (For UPS, IPS, VS), Making & breaking capacity test (Switch & Socket).

Fan Testing Laboratory

Main equipments of this laboratory:

- Watt Meter
- Anemometer
- Vann type Anemometer
- Stop Watch
- Tachometer (Analog)
- Digital Photo Tachometer
- Digital Clamp Meter
- Volt Meter
- Kilo Wattmeter
- Voltage Stabilizer
- Auto Transformer
- Ampere Meter
- Power factor meter.

Products:

Ceiling fan, Table fan, Pedestal fan, Cabin fan, Deck head fan, Exhaust fan, Electronic fan regulator.

Test Facilities:

Watt, Power factor, Temperature rise, Leakage current, Speed (RPM), Electrical & Mechanical strength, Air delivery etc.

Energy Meter Testing Laboratory :



Fig: Single Phase AC Energy Meter Test Bench

Main equipments of this laboratory:

- Computerized Automatic Digital Single Phase AC Energy Meter Test Bench
- Computerized Automatic Single Phase Static Watt Hour Meter Test Bench
- Digital Insulation Resistance Tester etc.

Products:

Single Phase Electro-mechanical Meter for Active Energy, Single Phase Static Watt Hour Meter, Prepaid Meter.

Test Facilities :

Percentage of error limit test (at various current), Starting current test, Insulation resistance, High voltage, Creeping test, Range of adjustment test etc.

Lighting Product testing Laboratory:



Fig: Lighting Product Testing Lab.

Main equipments of this laboratory :

- Digital Power Meter
- 8-Channel Temperature Meter
- Digital Torque Meter
- EB CFL ON-LINK OK Tester
- Ageing Line Tester
- Electronic Ballast Analyzer
- Digital CC & CV Power Supply
- Specto-Photo Colorimeter
- Intelligent Pure Sine wave Power Supply
- Adjustable Reference Ballast
- 1.5M Integrating Sphere
- Withstand Voltage Tester
- Lamp Complete Analysis System
- Torsion Tester for Tube Light

Products:

Tubular fluorescent lamp, Compact Lamp fluorescent lamps, Incandescent lamp, LED, Electronic ballast & magnetic ballast.

Test Facilities:

Dimensions, torsion, Wattage, Insulation resistance, Lumen, Correlate color temperature, Total harmonic distortion (THD), Power factor, Colour tolerance, Colour rendering index, Sdcm, magnetic screening test, Supply current, open circuit voltage, Pre heating current, Running current, Complete analysis of electronic & Electromechanical ballast.

The following other electrical products are also tested :

Dry cell battery, Watch battery, LT & HT cable, Porcelain insulator, Electric line materials (Transmission & distribution), Circuit breaker, Meter box, Electric iron etc.

BSTI is going to establish the following

Laboratory within this year 2017:

1) Air Conditioner Testing Laboratory

In this laboratory we shall test all kind of manufactured/ imported Air Conditioner. In this laboratory we shall also test the star label rating of Air Conditioner.

6.2.2 Civil, Physical and Mechanical Engineering Laboratories

These laboratories provide a comprehensive range of metallurgical and mechanical testing services. Test specimens are prepared for civil & mechanical products in the evaluation of tensile, compression, impact, weld ability, fatigue & bend properties according to National/ International standards.

The laboratories of Civil, Physical and Mechanical Engineering division are:

- a) Cement Testing Laboratory
- b) Brick Testing Laboratory
- c) Mechanical Engineering Laboratory
- d) Tiles Testing Laboratory
- e) Safety Razor Blade Testing Laboratory
- f) Paper Testing Laboratory
- g) Hydraulic Pressure Testing Laboratory
- h) Condom Testing Laboratory

A) Cement Testing Laboratory:



Fig: Cement Testing Lab

Products: 27 types of Cement are Tested as per BDS EN 197-1:2003.

Test Facilities:

Initial setting time, Soundness and Compressive strength test (2 days & 28 days) etc.

B) Brick Testing Laboratory:

Products: Clay Bricks.

Test Facilities: Dimension, Water absorption, Crushing strength etc.

C) Mechanical Engineering Laboratory:



Fig: Mechanical Engineering Lab

Products: Various types MS Rod, Plate, Angle, G.I pipe, Bi-cycle rim, etc.

Test Facilities: Mass, Diameter, Breaking load, Yield stress, Elongation, Bend test, etc.

The following other products are also tested:

Ceramic tiles, Porcelains, Sanitary fittings (Sinks, Wash basins, Toilet bowls, Urinals, Bathtubs, etc.), GI pipes, M.S. pipes, PVC pipes, Safety matches, Safety razor blade, Ball point pens, Conveyor belt, Steel trunk, Boot, Shoe, Paper, G.P & CGS sheet,

Transmission belt Rubber, Tea chest, Gas mantles, Helmets, Bi-cycle Tyre & tubes, Ceramic table wares, Tableware made of melamine plastics, Tableware made of urea molding compound, Cement Paints, Sanitary ware appliances, Iron safe, etc.

Modern Testing Equipments:

- Compression Testing Machine, Cap:1500kN
- Automatic Mixer Machine
- Jolting Machine with Four Set Moulds
- Paper Tensile Testing Machine. Cap: 30kg
- Hydraulic Pressure Testing Machine Cap: 2000 psi & 10 MPa
- Universal Tensile Testing Machine, Cap:1000kN & 50Tons
- Compression Testing Machine, Cap. 2000kN
- Compression Testing Machine, Cap. 250 kN
- Air Permeability Testing Apparatus for Paper
- Vibrating Machine for Cement
- Humidity & Temperature Control Cabinet
- Planetary Mixer
- Vicat Needle Apparatus
- De-humidifier
- Paper Bursting Testing Machine
- Rockwell Hardness Testing Machine
- Breaking Strength Testing Machine for Tiles
- Abrasion Testing Machine for Tiles
- Tensile Strength Testing Machine for Rubber
- Paper Roughness Testing Machine
- Vicker Hardness Testing Machine for Safety
- Razor Blade
- Bevel Angle Testing Machine for Safety Razor Blade.

6.2.3 Textile Testing Laboratory.

The Textile Division perform the functions through the following laboratories:

1. Textile Mechanical Laboratory.
2. Textile Chemical Laboratory.

Samples receive from the following sources:

- Samples receive from govt., semi-govt. and autonomous bodies.
- Finished products of various industries
- Raw material used in the industries
- Imported and exportable goods
- Samples seize by the police department
- Samples receive from court in connection with arbitration of cases on disputes of quality
- Samples of compulsory items

Accredited Textile Testing Laboratory:

The Textile and Garments sectors are the major foreign currency earning sectors in Bangladesh. BSTI has established well-equipped modern textile laboratory. With the technical and financial support of UNIDO and NORAD the BSTI Textile Laboratory achieved accreditation

from NABL (National Accreditation Board for Testing and Calibration Laboratories), India as per ISO 17025. Fibre, yarn, fabrics, garments and textile accessories etc. are being tested in this laboratory. The process of getting accreditation from BAB (Bangladesh Accreditation Board), Bangladesh is undergoing.

Modern Laboratory Equipment and Machineries

List of some modern laboratory equipments of Textile Testing Laboratory of BSTI.

- Gas Chromatograph Mass Spectrometer (GCMS)
- High Performance Liquid Chromatograph (HPLC) with Mass Spectrometer (MS) Detector.
- Washcator
- Launder Meter
- Perspiro Meter
- AATCC Spray Tester
- Crease Recovery Tester
- Martindale Abrasion Tester

- Pilling Box Tensile Strength Testing Tester (Tinius Olsen)
- Tear Strength Tester
- Bursting Strength Tester
- Crock Meter
- Electronic Twist Tester
- Light Fastness Testing m/c
- Atomic Absorption Spectrometer (AAS)
- Hot Pressing Machine



Fig: Atomic Absorption Spectrophotometer(AAS)



Fig: Gas Chromatograph Mass Spectrometer (GCMS)



6.3 Chemical Testing Wing

BSTI Chemical Laboratory is a leading testing organization in Bangladesh, established in 1955. It has an enviable track record of serving several market leaders across the globe. The Functions of Chemical Testing Wing is to ensure the quality of Food, Agricultural products, Organic and Inorganic Industrial products produced locally/imported by testing with modern equipments as per National and International Standards.

BSTI chemical testing wing consists of two divisions, These are:

1. Food and Bacteriology Division

2. Chemical Division

The sources of the sample are given below:

- Samples of compulsory items under Certification Marks Scheme, BSTI;
- Samples received from Govt. Semi Govt. & Autonomous Bodies;
- Finished products & raw material of the products of various industries;
- Import & Exportable items;
- Sample received from Department of Police/CID/DB/SB/Customs;
- Sample collected by surveillance team from open market to ensure the quality of the products;
- Sample received from mobile courts in connection with arbitration of cause on disputes of quality;
- Samples seized by the Police/RAB;
- Sample received from individuals or Private sector.

6.3.1 Food and Bacteriology Division

The Food & Bacteriology Divisions perform the tests through the following laboratories.

➤ Cereal and Bakery Products Lab.

Test Items: Biscuits, Chanachur, Noodles, Chips, Instant Noodles, White Bread, Lachsa Shemai, Cake etc.

➤ Processed Fruits Products and Fruit Drinks Lab.

Test Items: Fruit Juice, Fruits Drinks, Jam, Jelly, Marmalade, Pickles, Sauce, Tomato ketchup, Tomato paste, Chutney, fruit squash, Fruit syrup, Fruit cordial, Edible jell etc.

➤ Water and Beverages lab.

Test Items: Water, Carbonated beverage, Tea, Lozenges, Sugar, Honey, Soft drink powder, Dextrose monohydrates etc.

➤ Microbiological lab.

Test Items: Fruit juice, Fruits drinks, Tomato ketchup, Tomato paste, Chutney, Fruit squash, Fruit syrup, Fruit cordial, Edible jell, Water, carbonated Beverage, Soft drink powder, Skin cream, Skin powder, Shampoo etc.

➤ Oils and Fats Products lab.

Test Items: Fortified soybean oil, Mustard oil, Fortified palm oil, Fortified palm olein, Rice bran oil, Sunflower oil, Black seed oil, Banaspati etc.

➤ Spices and Condiments Lab

Test Items: Chillis (Whole & Ground), Turmeric powder, Coriander powder, Cumin powder, Suji, Atta, Maida, Wheat Bran etc.

➤ Milk and Milk Products Lab

Test Items: Pasteurized milk, Toffees, yoghurt & Sweetened yoghurt, Ice-cream, Whole milk powder & Skim milk powder, Infant formula, Butter oil, Ghee etc.

➤ Instrumental labs.

- AAS and GC Lab
- GC-MS Lab.
- HPLC Lab
- LC MSMS Lab
- GC MSMS Lab

Special testing parameters:

- Microbiology
- Melamine
- Aflatoxin
- Preservatives
- Vitamins
- Toxic Metals

Test Specification /Standards:

National/International Standards.

Accreditation status of Food & Bacteriology Division

89 parameters of 21 products under Food and Bacteriological Divisions acquired Accreditation as per ISO/IEC 17025:2005 by National Accreditation Board for Testing and Calibration Laboratories (NABL), India since 18 March, 2011.

Accredited Laboratories are:

- Cereal and bakery lab.
- Processed fruits products and fruit drinks lab.
- Water and beverages lab.
- Microbiological lab.
- Instrumental lab. (AAS and GC)

6.3.2. Chemical Division

Chemical Divisions perform the tests through the following laboratories.

- **Soap and detergent lab.**
Test Items: Toilet soap, Laundry soap, Carbolic soap, Synthetic detergent powder and Shampoo
- **Cosmetic products lab.**
Test Items: Skin Cream, After Shaving Lotion, Lipstick, Shaving Cream, Hair oil, Skin and Face Powder, Coconut oil
- **Building materials lab.**
Test Items: MS Rod, GP Sheet and CGS Sheet, Cement
- **Ceramic products lab**
Test Items: Ceramic tableware, Tiles, Tableware made of Melamine Moulding Compound etc.
- **Paper and pulp lab.**
Test Items: Stencil Paper, Writing and Printing Paper, Newsprint Paper, Security Paper, Carbon Paper etc.
- **Leather products lab.**
Test Items: Leather Products, Shoe Polish etc

Special Testing Parameters:

1. Octane Number
2. Cetane Number
3. Cetane Index
4. Gold Testing

Test Specification or Standards:

National/International Standards.

Accreditation status of Chemical division:

19 parameters of 03 products such as Cement, M.S Rod and Soap under Chemical Divisions acquired Accreditation as per ISO/IEC 17025:2005 from National Accreditation Board for Testing and Calibration Laboratories (NABL), India since 18 March, 2011.

Accredited Chemical Laboratories are:

- Soap and Detergent Lab.
- Building materials Lab.

Some Modern Equipment of Chemical Laboratory



Liquid Chromatograph Mass Spectrophotometer (LC MSMS)



High Performance Liquid Chromatograph (HPLC)



Strohelein Apparatus for Carbon Determination



Gvold Testing Lab with ED XRF Machine



Gas Chromatograph Mass Spectrophotometer (GC MS)

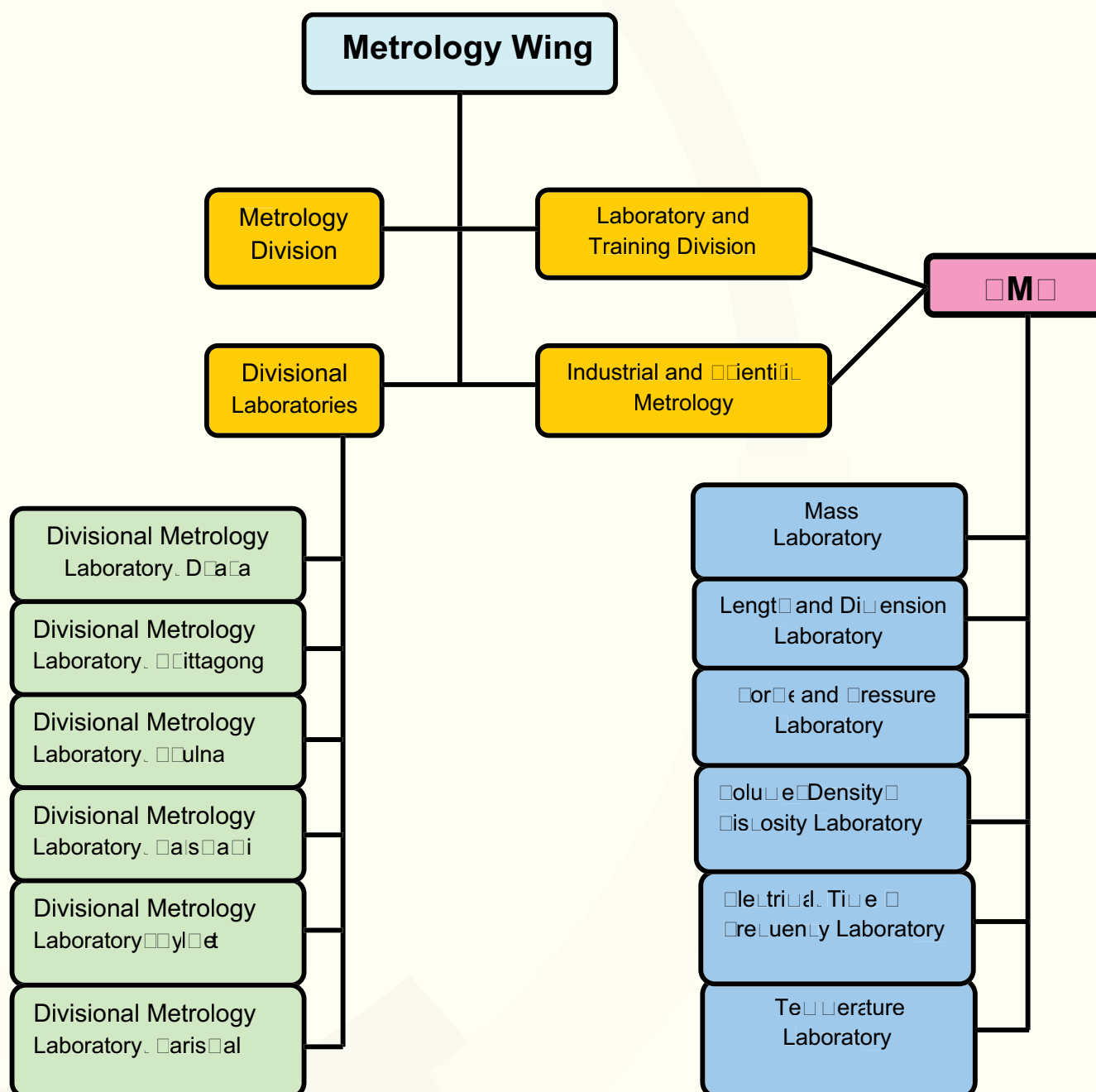


Colony Counter for Microbiological Testing

6.4 Metrology Wing

The functions of the Metrology Wing are to provide a National Metrological Infrastructure in terms of its calibration and verification services under the Weights & Measures Ordinance 1982, (Amendment Act'2001) to implement the Metric System, to assurance of fair trade and consumer protection to enforce Legal Metrology regulations and to provide chemical Scientific & Industrial Metrology Services.

As the apex of the national metrology system, the National Metrology Laboratory of BSTI is entrusted to act as the custodian of the National Measurement Standards of SI units at the highest level.





6.4.1 Metrology Wing is Responsible for

1. Implementation of metric system (SI - International System of Units) of measurement throughout the country.
2. Maintenance of standards of Weights and Measures with international chain of traceability.
3. Maintenance and development of the National Measurement Standards.
4. Promotion of metrological activities by creating physical facilities to implement legal metrology and chemical, industrial & scientific metrology in the country.
5. Verification of measuring instruments used in trade and calibration of measuring instrument used in industries and science.

6.4.2 Metrology Laboratories

Metrology is the science, application of measurement, embracing both experimental and theoretical determinations at any level of uncertainty in any field of science and technology.

It is something of vital importance to us all. The intricate and mostly invisible network of services, suppliers and communications upon which we are all dependent, relies on Metrology for its efficient and reliable operation.

a) Industrial and Scientific Metrology Laboratories

Scientific Metrology assures the comparability and accuracy of measurements. This is achieved by comparison measurements on standards that are traceable through an unbroken chain of measurements to comparisons done to other artifacts of known metrological behavior. The preferred route for such standards is that these are ultimately traceable to the SI.

b) Metrology Laboratory and Training Division

The Legal Metrology Laboratory is maintaining E_1 , E_2 and sets of reference, secondary and working standards of Weights and Measures, which are in turn used to verify the standards used by legal metrology inspectors in the field. These are then used by the inspectors to legally enforce fair trade and consumer protection.

c) Legal Metrology

Legal Metrology is a vital element of a stable and prosperous society. Confidence in measurement is necessary for fair local trade, consumer protection and international trading.

Legal metrology comprises all activities for which legal

requirements are prescribed on measurement, units of measurement, measuring instruments and methods of measurement, these activities being performed by or on behalf of governmental authorities, in order to ensure an appropriate level of credibility of measurement results in the national regulatory environment.

This objective is achieved by inspecting and verifying measuring instruments used in trade (scales and balances used in shops and markets, petrol pumps, pre-packaged goods etc.) and issuing fines to those traders found in violation of the Weights and Measures Ordinance and its applicable Rules.

d) Chemical Metrology:

Chemical Metrology is the part of metrology which has to do with all kinds of measurements in chemistry.

6.4.3 Salient Features of Metrology Laws

The Standards of Weights and Measures Ordinance, 1982 (Ordinance No. XII of 1982), The Standards of Weights and Measures (Amendment) Act, 2001, The Bangladesh Standards of Weights and Measures Rules, 1982, The Bangladesh Standards of Weights and Measures Rules (Amendment), 2006 were promulgated by the Govt. of the People's Republic of Bangladesh to:

- i. Introduce and implement the Metric System in the country.
- ii. Build up infrastructure of legal metrology in Bangladesh.

The Standards of Weights and Measures Ordinance, 1982 and the Bangladesh Standards of Weights and Measures Rules, 1982 have made the following matters, among others, mandatory:

- Every manufacturer, repairer and dealer of commercial weights and measures has to obtain a licence from BSTI.
- All commercial weights and measures are to be verified and stamped by BSTI every year.
- Every exporter and importer of weights and measures is to be registered with BSTI.

For consumer protection, punishment has been increased against the violators of the Weights and Measures Ordinance through "The Bangladesh Standards of Weights and Measures (Amendment) Act, 2001."

6.4.4 The Bangladesh Standards of Weights and Measures (Packaged Commodities) Rules, 2007 and (Amendment, 2012)

Presently, in exercise of powers conferred by Section 64 of The Bangladesh Standards of Weights and Measures Ordinance, 1982 (XII of 1982), the Government has

promulgated The Bangladesh Standards of Weights and Measure (Packaged Commodities) Rules, 2007 for consumer protection. The Government has formulated the Packaged Commodities Rules in the interest of the packers, manufacturers, suppliers, dealers, importers, exporters, distributors, sellers and consumers. In the 31st Council meeting of BSTI approved b-market against the registered company followed the above rules. Amongst other requirements, these Rules mandate the following information to be made available on every package:

- a) The name and address of the manufacturer or where the manufacturer is not the packer, the name and address of the manufacturer and packer in the principle display panel,
- b) The common or generic names* of the commodity contained in the package;
- c) The net quantity, in terms of the standard unit of weight or measure, of the commodity contained in the package or where the commodity is packed or sold by number, the number of the commodity contained in the package;
- d) The month and year in which the commodity is manufactured or pre packed
- e) The month and year in which the commodity is expired;
- f) The retail sale price of the package;
- g) Where the size of the commodity contained in the package are relevant, the dimensions of the commodity contained in the package and if the dimensions of the different pieces are different the dimensions of each such different piece;
- h) Such other matters as are specified in these rules;
- i) All information should be written in Bengali and any other language of choice.

***Explanation:**

Generic name in relation to a commodity means the name of the genus of the commodity, for example, in the case of common salt, sodium chloride is the generic name.

6.4.5 Metrology Activities

Presently, the Bangladesh Standards and Testing Institution (BSTI) has been maintaining Reference and Secondary Standards of mass, length and volume. These standards of mass, length and volume are being used for verification of weights and measures and for calibrating weighing and measuring equipment.

There are six regional metrology laboratories in six divisional headquarters located at Dhaka, Chittagong, Rajshahi, Khulna, Barisal and Sylhet.

These laboratories are equipped with working standards of weights and measures. Those are being used for verification and re-verification of commercial weights and measures. Recently three Regional Calibration Laboratory (RCL) are established at Dhaka Chittagong and Khulna offices.

6.4.5.1

Verification of CNG dispensing unit will be introduced very soon for protection of customer rights of Compressed Natural Gas (CNG) user. BSTI Metrology Wing going to start verification & stamping of CNG master meter as per decision of the 31st council meeting held on 12.09.2017.

6.4.5.2

The Government of the Peoples Republic of Bangladesh has promulgated the 'LPG Bottling Plant Establishment Policy, 2016' vide notification No 28.00.0000.027.38.006.16-177 dated 10 May, 2016. According to the section No 3.6 of said policy, it is mandatory to take approval from BSTI for establishment and running of 'LPG Bottling Plant'. So, BSTI has started activities for issuing license to newly establishing LPG Bottling Plant. For this reason BSTI Council has given approval of fees for issuing license to the LPG Bottling Plant in 31st meeting which was taken place in 12.09.2017. The same fees will be applicable in case of LNG Bottling Plant also.

Project Proposal/Future Plan: To establish primary standard and expand the calibration facilities in the field of Mass, Balance, Temperature, Length, Force, Pressure, Time & Electrical parameter a Development Project Proposal (DPP) has been submitted to the ministry. Under the project "Up gradation and expansion of National Metrology Laboratory (NML), BSTI" some precession equipment will be purchased. The project cost in 92 cores.

6.4.6 The Activities of Regional (Divisional) Metrology Offices

- a) Issuance of license to manufacturers, repairers and dealers of commercial weights and measures. All weights and measures manufactured/repared by the manufacturer/ repairer are tested, verified and stamped by BSTI before they are marketed or put in use.
- b) Periodical verification and stamping of weights and measures being used in markets, shops, commercial places etc.



- c) Periodical verification and stamping of bullion weights being used in jewellery shops.
- d) Periodical verification and stamping of platform scales, weigh bridges, beam scales in use.
- e) Periodical verification/re-verification and stamping of dispensing units of petrol pumps.
- f) Calibration/re-calibration of tank lorries carrying petroleum products.
- g) Periodical calibration/re-calibration of storage tanks, overhead tanks and underground tanks.
- h) Taking legal actions against violators of any Weights and Measures law.

6.4.7 National Metrology Laboratory (NML)

In general, every country has a National Metrology Institute/Laboratory (NML), which is responsible for the development and maintenance of the national measurement standards in physical and chemical quantities irrespective of whether these standards physically have the highest achievable accuracy (primary standards), when they are declared as the national measurement standard of a nation, they represent the countries

measurement capability. Calibration activities are also an essential part of the national metrology system and thus of the national quality system. The National Metrology Laboratory is the national custodian of reference standards and as such it must obtain, conserve, develop and disseminate the basic measurement units and the highest level of calibration standards. It provides traceability to the national system and it ensures that international technical guidelines are followed for metrological performance for measuring instruments subject to legal controls. From the point of view of manufacturers it ensures that their products meet international specifications for metrological performance and testing.

The National Metrology Laboratory (NML-BSTI) of Bangladesh was established in 2009 through funding to the amount of Tk. 3200 Lakh under a TA Project "Quality Management System and Conformity Assessment Activity for Bangladesh Quality Support Programme" (Post MFA), with the financial and technical support of EU, UNIDO and NORAD. The NML-BSTI started its operations in 2009 and it was formally inaugurated by the then honorable Minister, Mr. Dilip Barua, Ministry of Industries and Dr. Kandeh K. Yumkela, Director General, UNIDO on 6th June, 2010.

There are six laboratories in the National Metrology Laboratory. These are as follow:

- Mass Measurement Laboratory
- Length & Dimension Measurement Laboratory
- Temperature Measurement Laboratory
- Force and Pressure Measurement Laboratory
- Volume, Viscosity and Density Measurement Laboratory
- Electrical, Time & Frequency Measurement Laboratory

In 2013 all the above six laboratories of NML BSTI achieved accreditation by Norwegian Accreditation (NA) and Bangladesh Accreditation Board (BAB).

Main Functions:

It is the primary national metrology laboratory; as such it develops national measurement standards and disseminates their accuracy to industry and other users in the country.

- It establishes and maintains the national measurement system, giving technical support to the network of private and public sector calibration laboratories,
- It provides traceability to the International System of Units (SI) to the national system,
- It offers technical support to industry in matters related to measurements, reference materials, calibrations and data to establish traceability of their measurements,
- It participates in modernization and technology transfer between academia, industry and government, contributing to the advancement of the scientific and technical infrastructure required by industry to compete in the present global markets,
- It supports the development of reference standards and of the national measurement system,
- It facilitates international harmonization and compatibility of measurements,
- It represents the country in the Regional Metrology Organization (RMO) and the world wide metrology system coordinated by BIPM,
- It participates in internationally organized inter-comparison measurements,
- Together with the national accreditation body it organizes national inter-comparison measurements for calibration laboratories in the country.

Mass Measurement Laboratory

Task

The mass metrology laboratory is responsible for developing, improving and maintaining national measurement standards, harmonizing international standards and disseminating quantity values of mass to customers through calibration services.

This laboratory also conducts researches on a wide variety of physical measurements.



Fig: Measurement Standards on Mass

Length and Dimension Measurement Laboratory

Task

Maintaining national measurement standards in the field of length and dimension measurement and conducting researches in precision measurement technologies. It also establishes, maintains and develops the standards of length for physical measurements necessary for the nation's industrial scientific progress and to establish international uniformity of the physical quantities.



Fig: Measurement standards on length and dimension

Force and Pressure Measurement Laboratory

Task

The force and pressure metrology laboratory is responsible for developing, improving and maintaining national standards for force and pressure, and disseminating quantity values of these national standards to customers through verification, calibration and testing services. This laboratory also conducts researches on the wide variety of force and pressure measurement technologies that are extensively needed by practitioners in this field.

It also establishes, maintains and develops the standards for force and pressure necessary for laboratories, to establish international uniformity of these physical quantities.



Fig: Measurement standards on force and pressure

Volume, Density and Viscosity Measurement Laboratory

Task

The quantity or amount of many types of goods traded on a daily basis is given as a volume.

Volume is dimensionally simply the cube of length and it is therefore possible in principle to define units of volume in terms of length. Usually such units are given the name of the length unit preceded by the word cubic.

The Volume Measurement Laboratory is responsible for developing, improving and maintaining national measurement standards in the fields of volume measurement.



Volumetric measurements are concerned with the measurement of liquid volumes.

Electrical, Time and Frequency Measurement Laboratory

Task

The electrical, time and frequency laboratory is responsible for developing, improving and maintaining of national standards and testing technology in the fields of electrical, time and frequency and working to push back the frontiers of measurement science to meet the needs of economic development and scientific advancement. Through this laboratory we can provide standard time and deliver it throughout the country.



Fig: Electrical time and frequency metrology laboratory

Temperature Measurement Laboratory

Task

The temperature measurement laboratory is responsible for the realization and dissemination of the SI unit for temperature (Kelvin). It is tasked with developing, improving and maintaining national measurement standards in this field. The temperature laboratory is participating in international comparisons and also providing ILC service for local calibration Laboratories to maintain the traceability.



Fig: Temperature Measurement Laboratory

Accredited Scope of NML–BSTI Calibration Services

Quantity/ Instrument	Measurement Range	Expanded Uncertainty (k=2)
Mass standard	1 mg-10 kg	± 0.016 -16 mg
Volumetric flasks (glassware)	50-500 ml	± 0.2 -0.5 ml
Liquid in glass thermometers	0-200 °C	$\pm 0.1^{\circ}\text{C}$
Digital thermometers	-50-200 °C	$\pm 0.1^{\circ}\text{C}$
Engineers tape measure	0-5 m	± 0.13 mm
Engineers steel rule	0-1500 mm	± 0.1 mm
Gauge pressure gas medium	1.5-40 kPa	± 0.1 kPa
Gauge pressure liquid medium	0.1-100 MPa	± 2 kPa
Time difference meter	100-100000 s	± 1 s

Other (as yet non-accredited) NML-BSTI Calibration Services

Quantity/ Instrument	Measurement Range	Expanded Uncertainty (k=2)
Balances*	20g-100 kg	Supplied on request
Temperature installations*	-40-1000 °C	Supplied on request
Thermocouples	-50-1200 °C	Supplied on request
Micrometers	25-200 mm	Supplied on request
Verniers/ calipers	150-600 mm	Supplied on request
Dial gauges	5-100 mm	Supplied on request
Hygrometers/ humidity loggers	30-70 % RH	Supplied on request

* Balance calibrations are preferably performed where the balance is used (in situ).

*Temperature installations include fridges, freezers, autoclaves, incubators, ovens and liquid baths (calibrations at customer's premises) .

Membership of Regional and International Metrology Organisations

- Member of the Asia Pacific Metrology Programme (APMP)
- Associate of the General Conference on Weights and Measures.
- Signatory of the CIPM Mutual Recognition Arrangement (MRA) between National Metrology Institutes.
- Participant in SAARC Regional Metrology Activities.



6.5 Certification Marks Wing

The Certification Marks Wing is responsible for the promotion of quality control, ensuring compliance of products with the Bangladesh Standards and regulatory requirements, implementation of Bangladesh Standards through the National Certification Marks Scheme and certifying the quality of commodities, process, materials and products, which are produced or imported for domestic consumption and for export.

6.5.1 Quality Assurance and Certification

What is Certification Mark (CM)?

The Certification Mark (CM) is a mark that attests the product or process or service is in conformity with the specific standard. Once this attestation is done by a recognized body like BSTI, the buyer procures and consumer consumes the goods bearing the certification mark with a greater degree of confidence. The existence of the standard mark on products, certified under this scheme, enables the consumers to distinguish a quality product from substandard or noncertified product in the market. The holder of the CM License is authorized to use the following Certification Marks (BSTI logo) on his product:



BDS 1781:2007

(This is an example of using the BSTI Certification Mark for a product named Vegetable Ghee conforming to Bangladesh Standard BDS 1781:2007)

Legal basis

The Bangladesh Standards and Testing Institution (BSTI) operates the Certification Marks scheme, under which the manufacturers and importers are licensed to use the standard mark on goods produced or imported by them in conformity with the relevant Bangladesh Standard (BDS). This scheme is governed by the Bangladesh Standards and Testing Institution Ordinance, 1985 and Bangladesh Standards and Testing Institution (Amendment) Act, 2003 and the BSTI Regulations, 1989 made thereunder. The scheme covers industrial and agricultural processed products but excludes drugs and pharmaceuticals (Administered by a separate authority)

BSTI established and provides quick services through One Stop Service Center to the applicants and licensees from Tejgaon at Dhaka since 2008 & from BSTI Regional Offices in Chittagong, Khulna and

Rajshahi. Besides this, BSTI conducts its activities through 5(Five) Regional Branch Offices (Chittagong, Khulna, Rajshahi, Sylhet and Barisal)

along with 5 (Five) District Offices (Rangpur, Bogra, Kishoregonj, Faridpur and Comilla) to take care of its Certification Marks function.

Operational aspects

The certification marks scheme is voluntary for the majority of the products covered by existing Bangladesh Standards (BDS) requirements. But when the question of ensuring human health and safety comes in, the need for quality certification assumes great importance. This explains the coming into operation of a certification scheme for some items on a compulsory basis. The Government, on considerations of health and safety of consumers and that of mass importance put such products brought under the Mandatory Certification Marks scheme. Only 154 products have been brought under Mandatory Certification Marks Scheme by issuing SRO's (Statutory Regulatory Order) by the Government time to time. In other words, marketing of these items is prohibited inside the country without having Certification Marks (CM) from BSTI as per approved standards.

Accredited Product Certification Scheme

The Product Certification operations are being providing for the scope of products, processes and services based on ISO/IEC 17065:2012. The Product Certification Scheme of BSTI is a 3rd party impartial Certification following type five scheme- Application review; Inspection, Product test results & Management system evaluation; review by an independent certification personnel (i.e. an external Expert); Certification decision and Surveillance in accordance with ISO/IEC 17067:2013. Product Certification Scheme (PCS) of BSTI is specified under the scope of Accreditation and Non-accreditation. BSTI has been operated Voluntary Product Certification Scheme (accredited and non-accredited) activities based on ISO/IEC 17065:2012 and the National Accreditation Board for Certification Bodies (NABCB), India has been given accreditation in 2012. At present, all voluntary and 10 (ten) mandatory products are being certifying under the non-accredited scheme. 07 (seven) mandatory products (Pasteurized Milk, Soyabean Oil, Fortified Soyabean Oil, Refined Palm Olein, Edible Palm Oil, Fortified Edible Palm Oil and Cement) and 07 (seven) voluntary products (Fruit Drinks, Edible Jell, Chutney, Protein Rich Biscuit, Wafer Biscuit, Flavoured Milk and Fortified Refined Palm Olein) are now under accreditation scope. Another three products (i.e. Low fat Milk, Sweetened condensed filled Milk and Fortified Rice Bran oil) will be added in the accreditation scope very soon.

Evaluation plan of product Certification Accreditation Scheme (Based on ISO/IEC 17065:2012)

Sl. No.	Certification Schedule	Category	Sub Category	Scope (Products/ Process)	Evaluation Criteria	
					Technical Standards	Others Applicable Document
1	Type-5 Based on ISO/IEC 17067:2013	A Food Manufacturing	A-I Processing of Perishable Animal Products	1. Pasteurized Milk 2. Flavoured Milk	1. BDS 1702:2002 2. BDS 1471:2012	STI for each product (based on Standards)
			A-II Processing of Perishable Plant Products	1. Fruit Drinks 2. Chutney	1. BDS 1581:2015 2. BDS 521:2011	
			A-III Processing of Ambient Stable Products	1. Wafer Biscuits 2. Protein Rich Biscuits 3. Edible Jell 4. Soyabean Oil 5. Edible Palm Oil 6. Refined Palm Olein 7. Fortified Soyabean Oil 8. Fortified Palm Olein 9. Fortified Edible Palm Oil	1. BDS 1001:2010 2. BDS 1563:2011 3. BDS1801:2015 4. BDS 909:2000 5. BDS 999:2000 6. BDS1567:2007 7. BDS1769:2014 8. BDS 1774:2014 9. BDS 1770:2014	
		B Non-Food Manufacturing	B-I Construction Materials and Building	1. Cement	1. BDS EN 197-1:2003	

Notification: Bangladesh Standards and Testing Institution (BSTI) is authorized to issue Certificate of test analysis for 21 food products for the purpose of export to India. The test analysis certificate issued by BSTI shall be accepted by the authorities these are-

1.	Fruit Juice	8.	Sauce	15.	Water
2.	Jam	9.	Tomato Ketchup	16.	Soft Drink Powder
3.	Jelly	10.	Fruit Syrup	17.	Carbonated beverages
4.	Marmalade	11.	Fruit Squash	18.	Fruit Cordial
5.	Pickles	12.	Chanachur	19.	Edible Gel
6.	Chutney	13.	Noodles	20.	Tomato Paste
7.	Fruit Drinks	14.	Instant Noodles	21.	Biscuits



6.5.2 Procedure for Certification Marks License

- a) Any producer/importer intends to use a Standard Mark of BSTI in relation to any article or process, shall apply to the Institution for obtaining a CM license on a prescribed application form.
- b) After receiving and reviewing the application along with the necessary and relevant documents, a preliminary inspection is conducted and an inspection report is prepared.
- c) If the company's establishment, production facilities/process or the quality assurance system is found unsatisfactory, the company is informed accordingly to take necessary corrective actions.
- d) If the company's information and corrective actions regarding the findings of the preliminary inspection is found satisfactory, then a formal inspection is conducted and samples are collected on a random basis, which are jointly signed and sealed by the BSTI Officer and the producer.
- e) A letter is issued to deposit the collected samples in the BSTI Laboratory or in any other laboratory approved by BSTI according to the relevant Bangladesh Standard (BDS).
- f) If the company's facilities or the quality assurance system is found unsatisfactory, or if the product samples do not conform to the relevant standard, the company will be advised accordingly.
- g) If the company is still interested in obtaining the product certification and rectified the identified problems/findings then a second formal inspection will be carried out.
- h) If the company's facilities are still found unsatisfactory, the application will be rejected.
- i) If the results of the test parameters are found in conformity with the relevant BDS and regulatory requirements, a license is granted in favour of that article.
- j) The initial validity of the license is for a period of three years. It can be extended on application for a further period of three years at a time, following the above process after getting satisfactory surveillance results in accordance to the BDS and STI (Scheme of Testing and Inspection).
- k) An application for renewal of the license is usually made 3 months before the expiry of the licensing period. The license shall be deemed to have been cancelled after its expiry date, if an application for renewal is not made before the expiry date of the license.
- l) A licensee has to pay fee to the BSTI, which is known as the CM fee. The CM fee consists of :
 - I. Application fee
 - II. Licence fee
 - III. Marking fee.
- m) A license granted in favour of any product/article, process or service can be cancelled, withdrawn or revoked at any time if it is found that the licensee has violated any of the conditions specified in the license or any provision of the BSTI ordinance.

6.5.3 Consumer Protection

BSTI believes that only constant vigilance can guarantee consumer protection. The following measures are taken by the Institution during the period when a license is in force:

- a) Post certification controls are exercised periodically through surveillance inspections at the licensee's unit. During these inspections, thorough technical auditing of the quality control system is carried out. Samples of products taken from a factory and market are tested twice in a year and tested in BSTI or in an independent laboratory.
- b) The results of inspections and product testing are communicated to the licensee as appropriate, with suitable advices.
- c) Misuse of the Standard Mark by an unscrupulous manufacturer or dealer is punishable under the provisions of the BSTI Ordinance 1985, which provides penalty and imprisonment to the offending party. Actions taken against unscrupulous manufacturers are brought to the notice of the consumers through media like TV, Newspapers etc.
- d) A licence can be suspended or revoked following serious discrepancies, particularly if the product does not conform to the applicable Bangladesh standard and published in the BSTI website and media.

- e) Complaints regarding the quality of certified products may be sent to the nearest office of the Institution. Such complaints are investigated, including testing of the item in question and, if deviations from the relevant Bangladesh Standard are found, the necessary action is taken. Simultaneously, causes for such failures are investigated and steps are taken with the licensee for necessary corrective measures to avoid a recurrence of such deviations.

BSTI is regularly creating awareness among the people vis-à-vis the importance of quality and the role of BSTI through newspapers and others media, seminar and meeting with the stakeholders.

Preliminary Inspection

The Preliminary Inspection (PI) will be carried out on a mutually agreed date, usually within a month of the receipt of the application.

The following items shall be inspected and reviewed during a Preliminary Inspection:

- a) Verification whether the production process is ready for production,
- b) Verification of the functioning status of production machinery,
- c) Status of the quality control system activities and test facilities as respective BDS and STI requirements,
- d) Availability of maintenance records of production machinery,
- e) Availability of the document giving performance requirements to the relevant Bangladesh standards,
- f) Conformity of packaging and labelling to the requirements of the relevant Bangladesh standard and laws,
- g) Information on initial questionnaire, application and regulatory requirements.

Preliminary Inspection results are recorded in a prescribed format and PI results to be communicated to the company at the closing meeting of the inspection. If the company's facilities or the quality assurance

system is found unsatisfactory after evaluation the PI report by a technical evaluator, then the company is to be informed accordingly.

Formal Inspection

If the company's facilities and quality assurance system are satisfactory or response after taken corrective actions on identified findings within the time agreed by the client during PI, a Formal Inspection (FI) will be arranged in a mutually agreed date. But if the company does not response by taking any corrective actions on PI findings, then the application is to be cancelled and informed accordingly.

The following items shall be inspected and reviewed during a Formal Inspection:

- a) Verify the corrective measures that have been taken on the basis of PI findings report related to the product standard and any other applicable standard or documents,
- b) Verify records of quality control tests in respect of the raw materials, intermediate processing stages and final products,
- c) Verify calibration certificates of test and measuring equipment for their validity,
- d) Verify compliance with statutory & regulatory requirements,
- e) Collect samples for testing in accordance with the sampling procedure given in the applicable Bangladesh Standard (BDS),
- f) Collect evidence of production turnover of the factory,
- g) Witness tests at the manufacturing premises (for the main parameters).

But if the testing facilities of important parameters in the laboratory of the client is not sufficient and unable to witness test and/or labelling information does not meet to the requirements then samples are not collected.

Results of Formal Inspection are recorded in the prescribed format and if any non-conformance is identified during FI, it needs to be communicated to the company at the closing meeting of the inspection. Identified non-conformances are also recorded in a prescribed format.



Subsequent Inspection

A subsequent visit (i.e. 2nd Formal Inspection or additional Surveillance Inspection) is required when the client/licensee changes any of the following areas:

- a) If the client response and taken Corrective Actions (CA) on Formal Inspection findings within the time agreed during FI and need on-site visit CA has taken within six months of the first FI.
- b) After cancellation application and apply within six months from the last FI.
- c) After CA has taken and applied within three months from the refuse the grant of license.
- d) Change the formulation or type/grade, or brand of the product or process-flow after getting license.

BSTI changes any requirements that related to the products quality/process and informed licensee/applicant and the provision that the licensee shall not release marked products resulting from such changes until the BSTI has notified the licensee accordingly

BSTI shall take actions off-site verification of documents to on-site verification and independent testing as relevant for the above changes informed.

Collection of samples

Two sets of samples are collected on a random basis using sampling plan based on relevant BDS, which are sealed with the joint signature of the inspection officer and the representative of the applicant.

Both the samples are kept in the custody of the applicant, who is advised to submit one set of the samples to the One Stop Service Centre of BSTI, which ultimately goes to the relevant laboratories for testing. Another one is kept with the applicant as a reference sample.

Testing

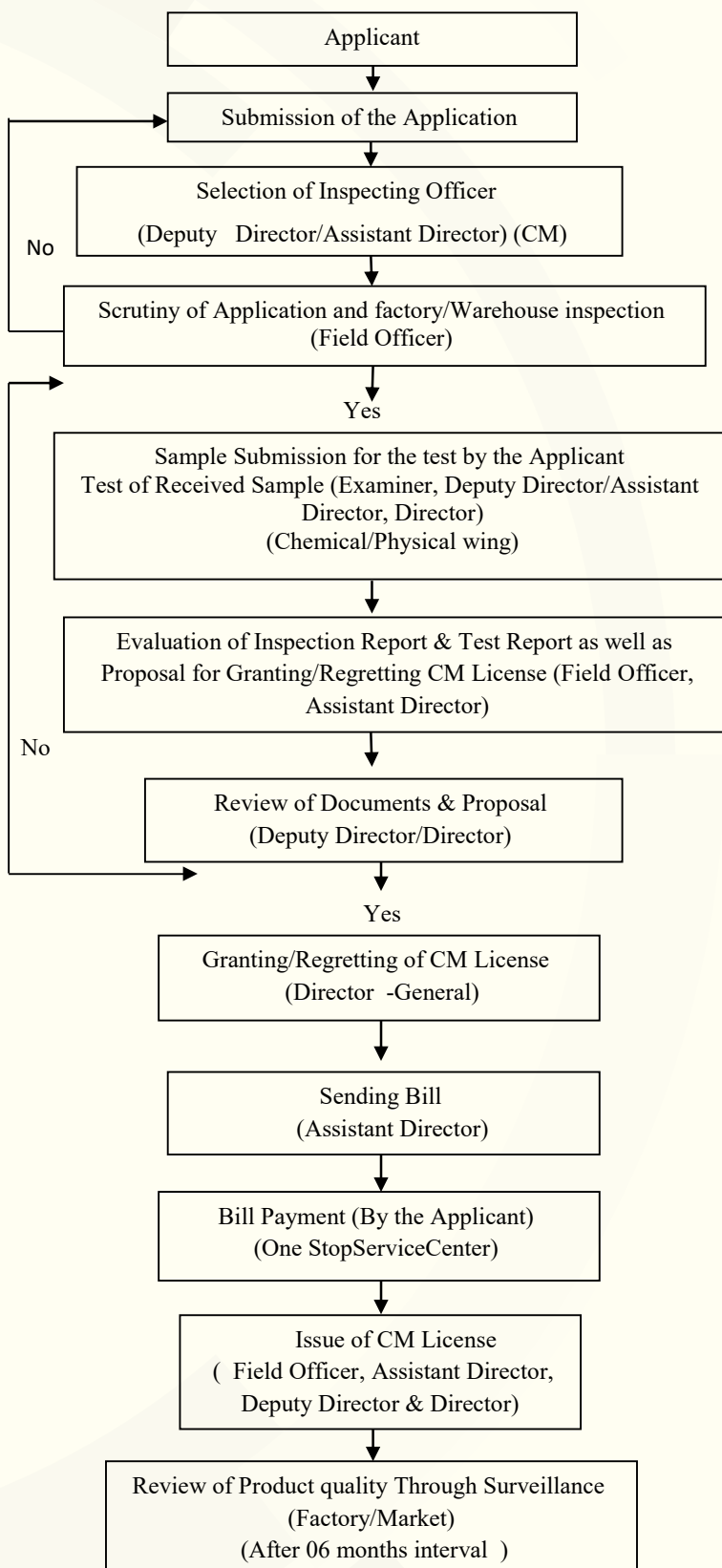
The sample is collected by the inspecting officer during the formal or surveillance inspection is submitted to the BSTI Laboratories situated at Dhaka, Chittagong, Khulna and Rajshahi whichever seems to be convenient. The testing fee is to be borne by the applicant. In case of laboratories other than BSTI, the applicant is advised to pay the testing fee directly to the concerned laboratory.

Grant/ Renewal of license

After the completion of the abovementioned formalities, if the Formal inspection report is satisfactory and the test results of required parameters are found in conformity with the relevant Bangladesh standard (BDS and STI), a decision is taken by Certification Committee for the granting of a license in favor of that product. After the due payment of the license and marking fees a license is issued.

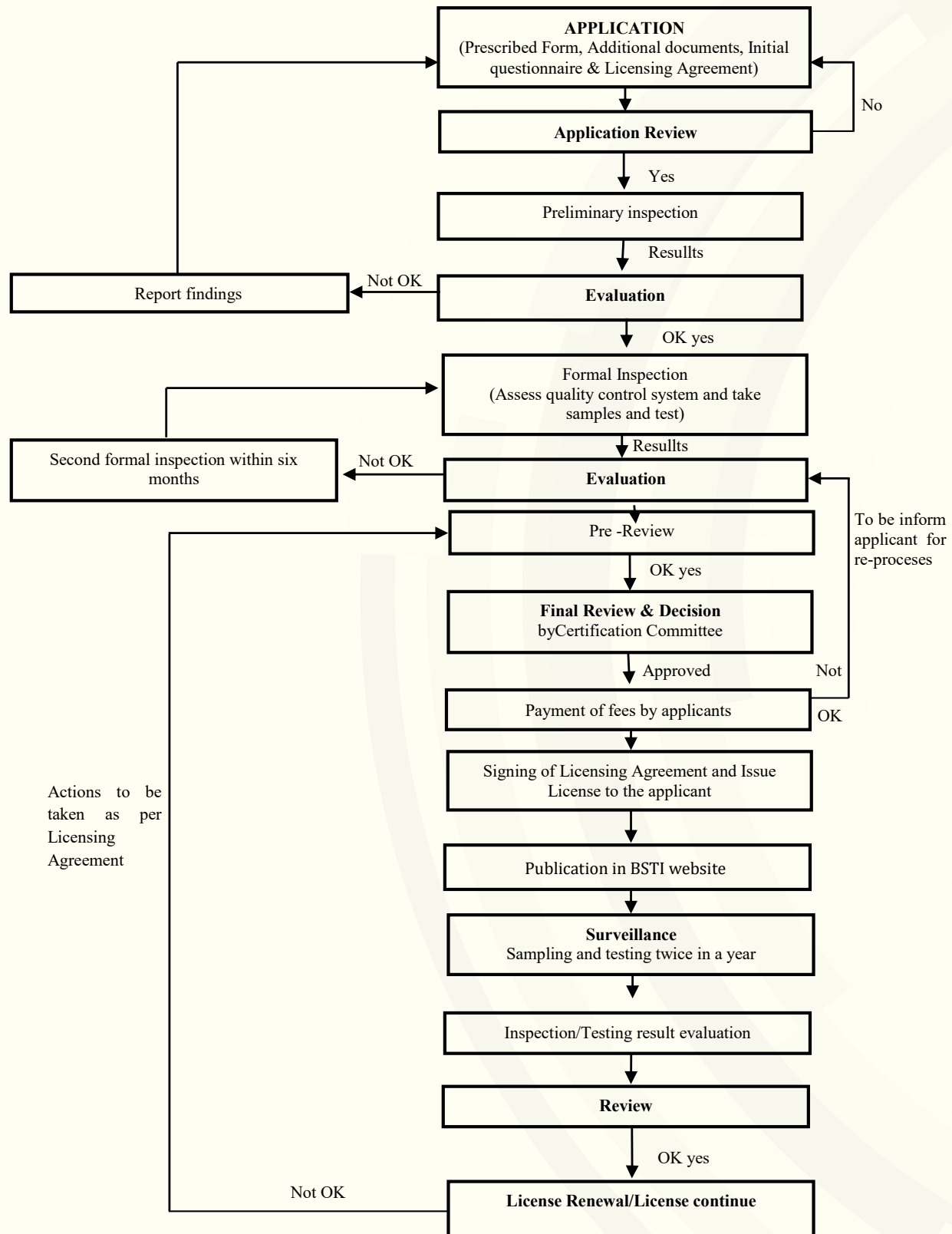
All information regarding CM activities is available in the BSTI website www.bsti.gov.bd and at the One Stop Service Centre of BSTI.

The Flow Chart of Certification Marks (CM) License Activities for the Products Brought Under Mandatory Certification





The Flow Chart for Process of Granting of Certification (Applicable for all Voluntary Products & Accredited Products)

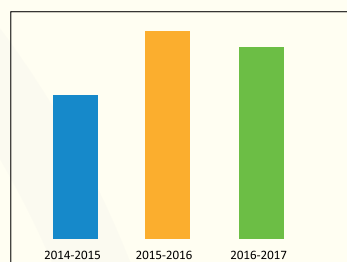


6.6 Administration Wing

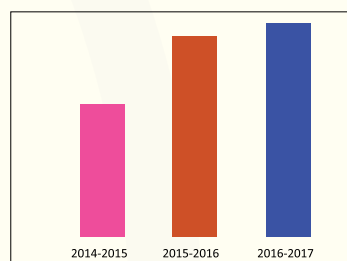
Administration wing provides logistic and support services to different wings of BSTI. These include; appointment, promotion, personnel management, overall human resource management, training, budget preparation and management of accounts, stores, procurement of goods, legal and other matters related to the establishment including planning & development.

6.6.1 Budget

Income of BSTI (last 3 Year)	
Financial Year	Income (Tk.)
2014-2015	57,53,16,326.00
2015-2016	83,14,98,382.00
2016-2017	76,48,85,454.00



Expenditure of BSTI (last 3 Year)	
Financial Year	Expenditure (Tk.)
2014-2015	41,28,31,912.00
2015-2016	62,53,84,254.00
2016-2017	66,39,12,518.00



6.6.2 Statistics of audit objection & disposal of audits during last 2 financial years.

(In Lakh Taka)

Financial Year	Audit objections raised in the Financial year		Total Objection (with previous pending)		Disposal of Audit objections (Corresponding year)		Pending	
1	2		3		4		5	
	Nos.	Taka	Nos.	Taka	Nos.	Taka	Nos.	Taka
2014-2015								
General			252	1944.9	21	5.71	231	1939.19
Advance	8	78.71	42	525.93			42	525.93
Total Objection	8	78.71	294	2470.83	21	5.71	273	2465.12
2015-2016								
General	5	32.02	236	1971.22	15	0.14	221	1971.08
Advance	9	949.40	51	1475.34	7	22.14	44	1453.20
Total Objection	14	981.42	287	3445.58	22	22.28	265	3424.28



2016-2017								
General	11	65.72	232	2036.80	4	23.40	228	2013.40
Advance	11	575.45	55	2028.65	12	244.36	43	1874.29
Total Objection	22	641.17	287	4065.45	16	267.76	271	3797.69

6.6.3 Manpower:

Presently total manpower of BSTI is 607.

Classification of Manpower

Approved posts	Appointed posts	Vacant posts
Class-1: 166	Class-1: 135	Class-1: 32
Class-2: 200	Class-2: 102	Class-2: 98
Class-3: 162	Class-3: 108	Class-3: 54
Class-4: 79	Class-4: 54	Class-4: 25
Total: 607	398	209

7. Management System Certification (MSC) Cell

BSTI has already taken a programme to operate Management System Certification against the standards of ISO 9001(Quality Management System), ISO 1400 (Environment Management System), ISO 22000 (Food Safety Management System).

In Bangladesh there are number of private certification agencies working for issuing system certification. BSTI is the only Govt. organization which has started awarding Management System Certification in the country.

Formerly the Management System Certification of BSTI had been Accredited by Norwegian Accreditation

Authority up to 2014. After completion of that tenure a joint International Expert Team (Audit Team) consists by Norwegian Accreditation and Bangladesh Accreditation Board (BAB) audited the activities and documentation of Management System Certification (MSC) of BSTI. By the recommendation of that Expert Team, Bangladesh Accreditation Board (BAB) has given Accreditation Certificate on Management System Certification of BSTI against ISO/IEC 17021 for 3(three) years.

In the meantime BSTI has issued 43 nos. of different system certificates in favor of the companies mentioned below:

No.	Description of the Certificates	Name of the Companies	Certificate no. & Date of Issue / Registration	Date of Expiry
1.	ISO 9001:2008 (Quality Management System)	1. AST Beverage Limited	00002 / 01.11.2010	31.10.2019
		2. Baby Nutrition Limited	00005 / 01.11.2010	31.10.2019
		3. Tokai Corporation Limited	00006 / 01.08.2011	31.07.2017
		4. Paragon Ceramic Industries Ltd.	00009 / 05.03.2012	04.03.2018
		5. BD Foods Limited	00012 / 05.12.2012	04.12.2018

No.	Description of the Certificates	Name of the Companies	Certificate no. & Date of Issue / Registration	Date of Expiry
		6. Royal Cement Limited	00015 / 24.06.2013	23.06.2019
		7. Silex Limited	00016 / 24.06.2013	23.06.2019
		8. Emami Bangladesh Ltd.	00017 / 24.06.2013	23.06.2019
		9. Ahmed Food products (Pvt.) Ltd.	00019 / 10.02.2014	09.02.2017
		10. Protik Ceramics Limited	00021 / 10.02.2014	09.02.2017
		11. Basic Power Engineering Ltd.	00023 / 10.06.2014	09.06.2017
		12. Nita Company Limited	00024 / 10.06.2014	09.06.2017
		13. Haq ue Food Industries Limited	00025 / 02.02.2015	01.02.2018
		14. Herbs World Limited	00026 / 02.02.2015	01.02.2018
		15. Prince Chemical Company Ltd.	00027 / 20.07.2015	19.07.2018
		16. Nitol Motors Limited (Service)	00028 / 20.07.2015	19.07.2018
		17. Technology & Business Solution Limited	00029 / 20.07.2015	19.07.2018
		18. Management & Training International Ltd. (MTI)	00030 / 20.07.2015	19.07.2018
		19. The UAE-Bangladesh Investment Company Ltd.	00031 / 20.07.2015	19.07.2018
		20. Ratanpur Steel Re-rolling Mills Ltd. (RSRM)	00032 / 01.02.2016	31.01.2019
		21. Alpine Fresh Water System Ltd.	00034 / 01.02.201	31.01.2019
		22. FulKoli Bread & Biscuit Industries Limited	00035 / 01.02.2016	31.01.2019
		23. Asian Power	00036 / 01.02.2016	31.01.2019
		24. Rahman Chemicals Limited	00037 / 15.09.2016	14.09.2019
		25. Crystal Technology Bangladesh Limited	00038 / 15.09.2016	14.09.2019
		26. Chisty AG Fan Manufacturing Industry Limited	00040 / 15.12.2016	14. 12.2019
		27. Kallol Thai President Foods (BD) Limited	00044 / 25.05.2017	24.05.2020



No.	Description of the Certificates	Name of the Companies	Certificate no. & Date of Issue / Registration	Date of Expiry
2.	ISO 9001:2015 (Quality Management System)	1. Bumblebee Technologies Bangladesh Limited	00041 / 15.12.2016	15.12.2019
		2. Amber Board Mills Limited	00045 / 25.05.2017	24.05.2020
		3. Electrical Engineering Company	00046 / 25.05.2017	24.05.2020
3.	ISO 14001:2004 (Environment Management System)	1. Panna Batteries Limited	00003 / 01.11.2010	31.10.2019
		2. Paragon Ceramic Industries Ltd.	00010 / 05.03.2012	04.03.2018
		3. RAK Ceramics (Bangladesh) Ltd.	00013 / 05.12.2012	04.12.2018
4.	ISO 14001:2015 (Environment Management System)	1. Bumblebee Technologies Bangladesh Limited	00042 / 15.12.2016	14.12.2019
5.	ISO 22000: 2005 (Food Safety Management System)	1. AST Beverage Limited	00001 / 01.11.2010	31.10.2019
		2. Baby Nutrition Limited	00004 / 01.11.2010	31.10.2019
		3. Vitalac Dairy and Food Industries	00011 / 05.03.2012	04.03.2018
		4. Igloo Foods Ltd.	00014 / 05.12.2012	04.12.2018
		5. BD Foods Limited	00018 / 24.06.2013	23.06.2019
		6. Dimond Biscuits Ltd.	00020 / 09.04.2014	08.04.2017
		7. Haque Food Industries Ltd.	00033 / 01.02.2016	31.01.2019
		8. Hashem Foods Limited	00039 / 15.09.2016	14.09.2019
		9. Igloo Foods Limited	00043 / 15.12.2016	14.12.2019

A remarkable number of application for different system certificates now are in the process. They are expected to get Certificates soon.



Bangladesh Accreditation Board (BAB)

91, Motijheel C/A, Dhaka-1000, Tel: +880-2-9513221 Fax: +880-2-9513222
Email: info@bab.org.bd Web: www.bab.org.bd

Certificate of Accreditation

This is to certify that

BSTI, Management System Certification Wing

**BSTI Maan Bhaban, 116-A Tejgaon Industrial Area
Dhaka-1208, Bangladesh**

has been granted accreditation in respect of the scope of accreditation described in the attached document, subject to the terms and conditions governing the relevant Conformity Assessment Body (CAB) accreditation

This Certification Body having met the requirements of ISO/IEC 17021:2011 and the BAB, is accredited for Management System Certification as described in the associated Scope of Accreditation.

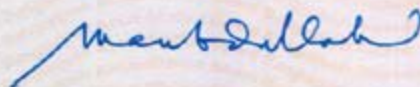


Certificate Number : 04.001.15

Issued on : 9 June 2015

Accreditation Date : 9 June 2015

Valid until : 8 June 2018



Director General

Bangladesh Accreditation Board (BAB)

This certificate has been issued under the authority of Bangladesh Accreditation Act, 2006 and must be returned on request; reproduction must follow guidelines in place at date of issue. For the specific scopes to which this accreditation applies, please refer to the directory of accredited CABs at <http://www.bab.org.bd/directory-of-accredited-cabs>



8. Accreditation Status of BSTI

The system of globalization has brought a revolutionary change in every sphere of human life and society and is making the world move fast towards the development of trade, commerce, industry and the quality of industrial products. Exporters need certificates from internationally recognized institutions that their products conform to the requirements for quality, safety, health and environmental impact. The United Nations Industrial Development Organization (UNIDO) extends its hands both in technical and financial terms to developing countries to develop an internationally acceptable conformity assessment system for laboratories.

8.1. BSTI Laboratory Accreditation:

The Accreditation of BSTI Laboratories have been granted in accordance with ISO/IEC 17025:2005 in the field of Chemical, Mechanical & Biological Testing by NABL India, on March 18, 2011. Accreditation Certificate Number for Chemical, Mechanical & Biological disciplines are T-1926 T-1927 & T-1928 respectively with issue date of 18-03-2011 and valid date was 17-03-2013.

Last on-site re-assessment audit was conducted on 07-08 March 2015 by NABL assessors. Validity of Accreditation Certification has extended to 14th June 2017.

With the approval of authority BSTI applied to the Bangladesh Accreditation Board (BAB) for getting the accreditation for 178 parameters of 33 products. Assessors of BAB assessed the laboratories of BSTI in the field of Chemical, Mechanical & Biological Testing from 10-12 July 2017. It is expected that BSTI will get accreditation from BAB very soon just after closing the Non-Conformities raised by the assessors of BAB.

Total Accredited products: 27 Nos. (newly applied-6)

Chemical division - 24 & Physical division- 3

Accredited products of Chemical Testing Laboratories are:

Biscuits, Chanachur, Noodles, Instant Noodles, Fruit Juice, Fruit Drinks, Jam, Jelly, Marmalade, Pickle, Sauce, Tomato ketchup. Chutney, Fruit squash, Fruit syrup. Fruit Cordial, Tomato paste, Edible jell. Water, Cement, M.S. Rod and Soap, Carbonated Beverages, Soft drink Powder.

Applied for new scope: Soybean oil, Palm oil, Palm Olein, Rice Bran oil, Sunflower oil and Black Tea

Total Accredited Parameters: 161 Nos.

Chemical Testing Laboratories Parameters 108 Nos. (Bakery-29, Processed Fruits-21, Water-30, Cement-04, M.S Rod-04 Soap-11 Microbiology-04, Carbonated BVerages-01 & Soft drink Powder-04).

Applied for accreditation (new): 17 parameters

Accredited products of Physical Testing Laboratories are:

Cement, Steel Material (MS Rod, GI Pipe, MS Angle & MS Plate) and Textile & Garments.

Physical Testing Laboratories Parameters 53 Nos. (Cement Mechanical: 3, Steel Material (Mechanical): 7, Textile Mechanical: 19 & Textile Chemical: 24).

9. Development Projects of BSTI

A. On going Projects:

A.1. Expansion and strengthening of Bangladesh Standards & Testing Institution (BSTI) (At 5 districts).

Estimated Cost: Tk. 5182.45 Lakh

Implementation

Period: July 2011- June 2019

Source of Fund: GoB

Objectives:

- To expand and strengthen BSTI's activities all over the country with a view to ensure the improved quality products and metrology services to the people.
- To create institutional infrastructure of BSTI at district level.
- To procure modern testing equipment for laboratories.
- To ensure supply of quality products to the customers.

A.2. Establishment of Testing Facilities of Air Conditioner, Refrigerator, Electric Fan and Electric Motor in BSTI.

Estimated Cost: 1200.00 Lakh

Implementation period: July 2014 - June 2018

Source of fund : GoB

Objectives:

- To increase and improve the testing activities of BSTI in the field of Electrical & Electronics products assured to the national and international level.
- To established the energy efficient product testing laboratory in BSTI.
- To established air conditioner, refrigerator, motor and fan testing laboratory in BSTI using modern technologies.

A.3. Establishment and Modernization of BSTI Regional Offices at Chittagong & Khulna

Estimated Cost : 23306.62 Lakh

Implementation period: July 2015 – June 2019

Source of fund : GoB

Objectives:

- To ensure quality products to the consumer.
- To Construct the total structure of the ten (10) storied building and finishing work up to 2nd floor including foundation for office cum laboratory building with 10(Ten) storied foundation at Chittagong and Khulna.
- To Procure modern laboratory equipment.

B. Recently Completed Projects:

B.1. Modernization and Strengthening of Bangladesh Standards and Testing Institution (BSTI) (First Revised).

Estimated Cost : 2813.95 (GoB- 1005.55, PA-1808.40)

Implementation Period: October 2010 - June 2017

Source(s) of financing: GoB & Indian LoC

Objectives

- To establish BSTI as a strong and effective quality controlling organization and to ensure the quality of indigenous products such as food, gold, cement and brick as per International standards.

B.2. Establishment of Chemical Metrology Laboratory (CML) at NML in BSTI.

(1st Revised)

Estimated Cost: Tk. 2253.00 Lakh

Implementation Period: July 2013 – June 2017

Source of Fund: GoB

Objectives:

- To develop, improve and apply of primary methods and reference materials for Chemical measurements.
- To provide a pragmatic approach to measurement, traceability and measurement uncertainty and to establish links to SI where appropriate.
- To construct infrastructure of chemical metrology lab building.
- To Develop CRM, RM & SRM.

B.3. Establishment of Calibration & Verification Facilities of CNG Mass Flow Meter for CNG Filling Station at regional level (Revised).

Estimated Cost : Tk. 815.00 Lakh

Implementation Period: July 2011-June 2017.

Objectives:

- To establish infrastructure development of CNG Mass Flow Meter calibration/ verification Laboratories at Dhaka, Chittagong regional offices and tanklorry calibration center at Chittagong regional office.
- To procure the modern sophisticated equipment for Dhaka, Chittagong, Rajshahi and Sylhet regional offices.
- To ensure correct measurement of CNG filling stations and protect the tempering of CNG meters.

Source of Fund: GoB



10. International Activities

BSTI maintains liaison with various international and regional organizations related to Standards, Conformity Assessment and Metrology.

The Bangladesh Standards and Testing Institution is a full member of the International Standardization Organization (ISO) since 1974. BSTI participates in international standardization activities in all relevant subjects of interest for the country. In most cases participation is being done on-line through the internet.

BSTI is also the full member of the 'International Organization of Legal Metrology (OIML)', of the 'Asia Pacific Metrology Program (APMP)' and Associate Member of 'International Bureau of Weights and Measures (BIPM)'.

BSTI participates actively in the work of the SAARC Standing Committee on Standards, Metrology, Testing and Quality.

Besides, BSTI maintains relations with WTO, ITC, AFIT, Codex Alimentarius Commission, of FAO and other international and regional organizations.

10.1. WTO-TBT; National Enquiry Point

BSTI is working as the National Enquiry Point for Bangladesh for World Trade Organization (WTO) Technical Barriers to Trade (TBT) Agreement since 2002. The e-mail address of the National Enquiry Point for WTO-TBT Agreement bsti_pub@bangla.net.

11. Public Service Information

11.1. One Stop Service Centre

The objective of One Stop Service Centre is to provide quick services within the stipulated time according to citizen charter, through extending BSTI's activities to the concerned producers, importers and distributors of various products/items that need to undergo testing for assurance of CM license. As such, BSTI has started One Stop Service Centre to fulfil its commitment for rendering better service to the people. It also facilitates the calibration services for instrument/apparatus use in labs.

The following services/information are being provided from One Stop Service Centre:

- i) Procedures & time length for testing/ calibration of samples.
- ii) Fees for sample testing / calibration.
- iii) Assurance of receiving sample testing/ calibration report within the specified time.
- iv) Procedures and period required for obtaining CM license.
- v) Receiving of marking fees for CM license.
- vi) Receiving applications relating to Weights & Measures.
- vii) Procedures for calibrating an instrument/ apparatus & time length
- viii) Dissemination of information/ documentation
- ix) Distribution test/calibration reports.
- x) To provide special service to SMEs and female entrepreneur.
- xi) To bring transparency through the media cell.
- xii) Selling standards and other publications.
- xiii) delivery of test reports, CM and Metrology licenses.

11.2. Citizen Charter

To make the activities of BSTI more transparent and vibrant, a Citizen Charter has been introduced. The time frame of activities of BSTI's Certification Marks, Metrology, Physical and Chemical Testing wing and the rate of the required fees to get these services have been listed specifically in the citizen charter. The BSTI authority has taken decisive steps to implement the citizen charter.

11.3. BSTI website

BSTI has established a well-developed, dynamic web site www.bsti.gov.bd. LAN connection has also been established for the implementation of e-governance in BSTI.

At present, BSTI is providing the following e-services:

List of 154 mandatory items with BDS no.

have been furnished on its Website.

Govt. has made 55 imported products compulsory in the import policy 2015-2018 for which BSTI's certification is essential. List of those 55 items with BDS no. have also been furnished on the Website.

For creating awareness among the consumer regarding the role and responsibility of BSTI, a Complaint Box has been included in the BSTI Website. Anyone can submit his/her complaint or opinion about the service provided by BSTI.

On-line application form for the Certification Marks (CM) license also included in the BSTI website, so that interested manufacturer/importer can apply through on-line.

12. Public Procurement Information

Three types of Committee work in the procurement and disposal of goods following PPR-2008

1. Spot Estimation Committee
2. Permanent Estimation Committee
3. Nilam Committee

1. Spot Estimation Committee

- In case of spot procurement DG can approve up to Tk. 15,000/- in one demand/week without tender. Besides, DG also can approve up to Tk. 10,000/- or less.
- This committee also procures by following direct procurement (DP) method in some special cases where only one supplier or govt. organization work as service provider .
- In case of emergency according to PPR-2008 (Amendment 2009-2013) of section 76(1), authority can approve Tk. 1(One) Lac for each case and maximum up to 5 (five) Lacs.

2. Permanent Estimation Committee

This Committee provides support to the tendering process as per PPR-2008.

- i) OTM (Open Tender Method): Tender Published in the newspaper.
- ii) RFQ (Request for Quotation): Price quotation is invited by written request.
- iii) QCBS (Quality Cost Based Selection) Method in case of service procurement.

Open Tender Method (OTM) :

Procurement limit: According to financial rules/ delegation of financial power the authority can exercise full financial power.

OTM Process: Any procurement of goods or works conducts by BSTI following the PPA-2006 PPR- 2008.

Request for Quotation (RFQ):

Financial Limit: According to PPR-2008 rule no. 69(1) 6(ka) (Gha)a and (Section-2).

Sl. No.	Types of Budget	Goods and Services Financial Limit	Work or Physical Services Financial Limit
1.	Revenue	Up to tk. 3 lakh in each item and not more than tk. 15 lakh in every year	Up to tk. 6 lakh in each item and not more than tk. 25 lakh in every year
2.	Development	Up to tk. 5 lakh in each item and not more than tk. 30 lakh in every year	Up to tk. 10 lakh in each item and not more than tk. 60 lakh in every year

3. Nilam

- Nilam committee is working for selling the old newspaper, broken machinery parts and other old unused materials.
- They estimate the price of the old accessories for Nilam.
- After estimation the committee call the bidder in open competition for their given price and give the work order to the highest bidder
- Accounts taking cash and giving receipt to the supplier.

e-Tendering:

- Now a days –BSTI initiate e-Tendering Process, we already complete the server setting e-GP system. We hope within few months, we start our procurement by e-Tendering process.

13. Bilateral Co-operation with BSTI



Signing Ceremony of Memorandum of Understanding (MoU) between Bangladesh Standards and Testing Institution (BSTI) and Sri Lanka Standards Institution (SLSI) in Dhaka on 14 July, 2017 in the presence of Hon'ble Prime Minister of Bangladesh H.E. Sheikh Hasina and Hon'ble President of Sri Lanka H.E. Mr. Maithripala Sirisena. Hon'ble Industries Minister of Bangladesh Mr. Amir Hossain Amu, m.p, signed the MoU on behalf of BSTI



Signing Ceremony of Memorandum of Understanding (MoU) between Bangladesh Standards and Testing Institution (BSTI) and Turkish Standards Institution (TSE) in Dhaka on 19 December, 2017 in the presence of Hon'ble Prime Minister of Bangladesh H.E. Sheikh Hasina and Hon'ble Turkish Prime Minister H.E. Mr. Binali Yildirim. Director General of BSTI Mr. Sardar Abul Kalam and President of TSE Mr. Sebahittin Kormaz signed the MoU.



Signing Ceremony of Memorandum of Understanding (MoU) between Bangladesh Standards and Testing Institution (BSTI) and Bhutan Standards Bureau (BSB) in Thimphu on 18 April, 2017 in the presence of Hon'ble Prime Minister of Bangladesh H.E. Sheikh Hasina and Hon'ble Prime Minister of Bhutan H.E. Mr. Tshering Tobgay. Director General of South Asia, Ministry of Foreign Affairs, The Peoples Republic of Bangladesh Signed the MoU on behalf of BSTI



Signing Ceremony of Technical Co-operation Program (TCP) between Bangladesh Standards and Testing Institution (BSTI) and Saudi Standards, Metrology and Quality Organization (SASO) in Saudi Arabia on 1 March, 2016 in the presence of Hon'ble Industries Minister of Bangladesh Mr. Amir Hossain Amu, m.p, Director General of BSTI Mr. Iqramul Haque signed the TCP.

14. Important Events Organized by BSTI (2016-2017)

World Metrology Day 2017



Bangladesh Standards and Testing Institution (BSTI) organized a seminar on the World Metrology Day-2017 at BSTI head office. In the seminar Mr. Amir Hossain Amu, M.P. honorable minister, ministry of industries (chief guest of the seminar); Mr. Ashaduzzaman Khan Kamal, M.P. honorable state minister, ministry of home affairs, Mr. Md. Mossarof Hossain Bhuyan, senior secretary, ministry of industries were present at the seminar as special guest. Mr. Md. Saiful Hasib Director General of BSTI was the chairperson of the seminar.



BSTI organized a rally marking the World Metrology Day in the city on 20 May, 2017. Industries Minister Mr. Amir Hossain Amu, M.P. attended the programme as chief guest where among others Mr. Md. Mosharraf Hossain Bhuiyan, senior secretary of the Industries Ministry, were present as special guests. Mr. Md. Saiful Hasib Director General of BSTI was the chairperson of the seminar also attend the rally.

World Standards Day 2016



Bangladesh Standards and Testing Institution (BSTI) organized a seminar on the World Standards Day-2016 at BSTI head office. In the seminar Mr. Amir Hossain Amu, M.P honorable minister, ministry of industries (chief guest of the seminar); Mr. Md. Mossarof Hossain Bhuyan ndc, senior secretary, ministry of industries Mr. Md. Safiul Islam (Mohiuddin) President of FBCCI were present at the seminar as special guest. Mr Iqramul Haque, Director General of BSTI was the chairperson of the seminar.

Inauguration of BSTI Certification Marks automation:



Bangladesh Standards and Testing Institution (BSTI) will issue all types of standardization certificates through online process from receiving application to issuance of certificates. Honorable Industries Minister Mr. Amir Hossain Amu, M.P inaugurated the automation of Certification Marks activities at Krishibid Institution on 10th November, 2016. Mr. Mossarof Hossain Bhuiyan, Senior Secretary, ministry of industries was present as special guest. The programme was also attended Managing Director of Sinha Bangladesh Trade Ltd. Engr. A. Matin, BSTI Director General Mr. Iqramul Haque.

Special Mobile Court on Holy Month of Ramadan



BSTI conducts mobile court for anti-adulteration. Strengthened its anti-adulteration drives through mobile courts across the country to ensure safe food during the holy month of Ramadan. On 31 May, 2017 a special mobile court conducts in Dhaka city. Mr. Md. Saiful Hasib, Director General of BSTI was took part in the mobile court. Executive Magistrate Mr. Masud Rana; Director (Metrology) of BSTI Mr. Md. Anowar Hossain Mollah and Director (CM) of BSTI Mr. Engr. S.M. Ishaq Ali was also present in the mobile court.

Participation of International Standard Formulation



BSTI playing an important role in International Standards formulation. The Director General of BSTI (1st from the right) took part in an International conference regarding Codex Standard formulation in Chennai on 6-10th February, 2017.

Management System Certificate Awarding Ceremony:



Bangladesh Standards and Testing Institution (BSTI) have conferred ISO 9001:2008 (Quality Management System), ISO 14001:2004 (Environment Management System) and ISO 22000:2005 (Food Safety Management System) certificate for ensuring international standard on 31 May, 2017 to 6 (six) companies. BSTI Director General Mr. Md. Saiful Hasib handed over the certificates to the company representatives. Among the companies M/S Kollol Thai President Foods (BD) Ltd., M/S Amber Boards Mills Ltd., M/S Electrical Engineering Company, M/S Baby Nutrition Ltd., M/S AST Beverage Ltd. got ISO 9001:2008 Certificate on Quality Management System. M/S Panna Battery Ltd. got ISO 14001:2004 certificate on Environment Management System. M/S Baby Nutrition Ltd., M/S AST Beverage Ltd. got ISO 22000:2005 Certificate on Food Safety Management System.

Signing of Annual Performance Agreement:



Bangladesh Standards and Testing Institution (BSTI) Head Office and its Regional Offices signed Annual Performance Agreement (APA) on 22 June, 2017 at its headquarters. BSTI Director General and head of six Regional Offices were present in the agreement ceremony.

BSTI-SARSO joint awareness programme:



Bangladesh Standards and Testing Institution (BSTI) and South Asian Regional Standards Organization (SARSO) jointly organized an awareness programme in the capital of Bangladesh at SARSO secretariat auditorium on 24th April, 2017. From the left Mr. A. N. M. Asaduzzaman director (Standard) of BSTI; Mr. Md Saiful Hasib, Director General of BSTI (Chief guest of the seminar); Indu Vikram Joshi, Director of SARSO and Mr. Philip Proctor Managing Director of RID Consulting Bangladesh Ltd. were present at the seminar.



Group picture of the participants with the chief guest and Director General of BSTI Mr. Md. Saiful Hasib (8th from the left).

Part-2

BSTI Activities at a Glance

(July 2016- June 2017)



1. Salient Features of Wing Wise Activities

Performance in fiscal year 2016- 2017 and comparative figures of the previous years.

1.1 Activities of CM (Certification Marks) Wing:

Sl. No.	Activities	2014-2015	2015-2016	2016-2017
1	New license issued	1477	1974	1957
2	License renewed	1875	2545	2580
3	Refused application for license	763	748	616
4	No. of mobile courts/ surveillance teams operated	1532 (mobile courts- 1096 & surveillance team- 668)	1746 (mobile courts 956 & surveillance team- 790)	1755 (mobile courts 781 & surveillance team- 974)
5	Cases instituted in mobile Courts/ surveillance teams	1410 (mobile courts-1259 & surveillance team-151)	1874 (mobile courts 1346 & surveillance team- 528)	1434 (mobile courts 1062 & surveillance team- 372)
6	Cases disposed in mobile Courts/ surveillance teams	1283 (mobile courts 1259 & surveillance team- 24)	1382 (mobile courts 1346 & surveillance team- 36)	1140 (mobile courts 1062 & surveillance team- 78)
7	Fine/Punishment (Million Taka)	330.82 lac (mobile courts 326.86 lac & surveillance team- 3.96 lac)	639.741 lac (mobile courts 634.631 lac & surveillance team- 5.11 lac)	502.83 lac (mobile courts 497.88 lac & surveillance team- 4.95 lac)
8	Revenue income (Million Taka)	37.23	5398.99190	4684.039

1.2 Activities of Metrology Wing:

Sl. No	Activities	2014-2015	2015-2016	2016-2017
1	a) Licence issued/renewed in favour of manufacturers of metric weights, measures & measuring instruments	46	56	45
	b) Licence issued/renewed in favour of repairer of metric weights, measures & measuring instruments.	18	25	27
	c) Licence issued/renewed in favour of Calibrations.	05	08	03
	d) Licence issued/renewed in favour of suppliers	490	743	629
2	Verification and stamping of weights, measures and measuring instruments made by manufacturer:			
	a) Weights.	-	13317	85809
	b) Measuring instruments/ beam scale	52128	44629	38277
	c) Liter measures	65600	50316	44049
3	Verification and stamping of weights, measures and measuring instruments used in different markets and trades:			
	a) Weights.	156787	167236	144226
	b) Measuring instruments/beam scale	44276	38711	48255
	c) Liter measures	36474	18632	29169
	d) Imported weighing instruments	105926	113396	269850
4	a) Verification of dispensing units of petrol pumps.	6842	7111	8001
	b) Calibration of storage/underground oil tanks.	1164	1077	1124
	c) Calibration of petroleum tank lorries.	1753	1803	2096

5	a) Mobile courts held	474	607	530
	b) Cases instituted in mobile courts	904	1184	1021
	c) Cases disposed	904	1184	1021
	d) Fine realized (Million Taka)	2850	5.129	4.325
6	a) Squad/ special teams of BSTI operated in markets	233	303	325
	b) Cases instituted in regular courts	144	569	303
	c) Cases disposed of in courts	06	07	13
	d) Fine realized (Million Taka)	0.033	0.36	0.132
7	Calibration/Re-calibration in industrial sector			
	a) Weights	1155	853	795
	b) Weighing scale	339	288	282
	c) Measuring instruments	924	749	808
8	Revenue income (Million Taka)	44.243	52.015	58.741

1.3 Activities of Physical Testing Wing:

Sl. No	Activities	2014-2015	2015-2016	2016-2017
1	Electric Meter Tested:	1087500	868700	913000
2	a) Civil, Physical & Mechanical:	4926	5899	8475
	b) Electrical:			
	c) Textile:			
3	Revenue Income: (in lakh)	444.60	422.72	558.38

1.4 Activities of Chemical Testing Wing:

Sl. No	Activities	2014-2015	2015-2016	2016-2017
1	Food Commodities, Organic Commodities and In-organic Commodities	14249	18704	18362
2	Revenue Income: (in lakh)	790.37	1102.04	1120.11

1.5 Activities of Standard Wing (Standards development):

Sl. No.	Activities	2014-2015	2015-2016	2016-2017
1	Agriculture and Food	26	33	29
2	Chemical	25	25	28
3	Jute and Textile	35	30	30
4	Electrical and Electronics	25	26	26
5	Engineering	25	44	58
	Total =	136	158	171

2. Training and Visit including foreign visits

A large number of officers of BSTI have been imparted from abroad during the period 2016-2017 with financial support of UNIDO, UNDP, ISO, SIS, SIDA, FAO/WHO, PTB and Commonwealth Technical fund. International experts were invited to train BSTI officials. The BSTI experts also attended meetings, seminars and workshops held at home and abroad and contributed to developing regional and international cooperation. The details of the training received by BSTI officials are given below:

01. Office of the Director General:

Sl. No.	Name & Designation of the Officers	Name of the Training/Activities	Country	Duration		Remarks (Source of Expenditure)
				From	To	
1	2	3	4	5	6	7
01.	Mr. Iqramul Haque Ex-Director General	01. Participate in the ISO General Assembly	China	09-09-2016	14-09-2016	Govt. of China
02.	Md. Saiful Hasib Director General	01. Pre-Inspection 'Establishment of Calibration & Verification Facilities of CNG Mass Flow Meter for CNG Filling Station In BSTI (2 nd Revised)'. 02. Participate in the 'Codex Committee on Spices and Culinary Herbs (CCSCH)'. 03. National Quality Infrastructure under the Project 'Implementation of the National Quality Policy (NQP) and Establishment of Bangladesh National Quality and Technical Regulation Council (BNQTRC)' 04. Participate in the 'Training Workshop on Solar Cells and LED Measurement Standards and Technologies'.	South Korea India Russia, Germany & United Kingdom (UK) China	19-01-2017 06-02-2017 02-03-2017 28-03-2017	26-01-2017 10-02-2017 13-03-2017 30-03-2017	CNG Project FAO NQP & BNQTRC NMI of China

02. Administration Wing:

Sl. No.	Name & Designation of the Officers	Name of the Training/Activities	Country	Duration		Remarks (Source of Expenditure)
				From	To	
1	2	3	4	5	6	7
01	Md. Taher Jamil Deputy Director-1	01. Participate in the Dialogue workshop on 'Conformity Assessment Standards for Industries and Government officials from Bangladesh'.	India	24-05-2017	25-05-2017	India
02.	Md. Lutfor Rahman Coordination Officer	1. Participate in the workshop on 'Metrology and National Quality Infrastructure, Metrology Legislation, Stakeholder Engagement and Awareness Raising and Quality Assurance'.	Malaysia	22-05-2017	26-05-2017	PTB
03.	Mohammad Tauhidur Rahman	1. Participation in the 'Training Course on Quality Management Systems'. 2. Participate in the 'ISO/COPOLCP Regional Training Workshop on Consumers and Standards for Road Safety Solutions'.	India Malaysia	07-11-2016 15-05-2017	08-11-2016 18-05-2017	India ISO

03. Standards Wing:

Sl. No.	Name & Designation of the Officers	Name of the Training/Activities	Country	Duration		Remarks (Source of Expenditure)
				From	To	
1	2	3	4	5	6	7
01.	Md. Rezaul Karim Director	01. Participate in the ISO Regional Training on ISO 50001 and ISO 50006 for energy Management Systems. 02. Participate in the 'Life Cycle Assessment Training and ISO 14001 Practical Training of Trainers (TOT)'.	Sri Lanka Thailand	03-10-2016 31-10-2016	06-10-2016 03-11-2016	ISO SIDA

Sl. No.	Name & Designation of the Officers	Name of the Training/Activities	Country	Duration		Remarks (Source of Expenditure)
				From	To	
Electrical Division						
02	Md. Sajjadul Bari Deputy Director	01. Participate in the ISO Regional Training on ISO 50001 and ISO 50006 for energy Management Systems.	Sri Lanka	03-10-2016	06-10-2016	ISO
03	Rahima Talukder Assistant Director	01. Participate in the ISO Regional Training on ISO 50001 and ISO 50006 for energy Management Systems.	Sri Lanka	03-10-2016	06-10-2016	ISO
04	Md. Mamun Khaled Senior Examiner	01. Participate in the 'International Training Programme on Standardization and Quality Assurance'.	India	17-10-2016	09-12-2016	Organizer of India
Engineering Division						
05	Md. Saidul Islam Deputy Director	01. Participate in the 'SESA Streering Committee Meething'.	Thailand	27-10-2016	28-10-2016	SIS
		02. Participate in the '2016 ISCP Cooperation Program with Bangladesh'.	Korea	09-11-2016	17-11-2016	KATS
		03. Participate in the 'ISO/COPOLCP Regional Training Workshop on Consumers and Standards for Road Safety Solutions'.	Malaysia	15-05-2017	18-05-2017	ISO
		04. Participate in the 'International Conference on Standards'.	Thailand	10-07-2017	10-07-2017	UN
Food & Agri. Division						
06	Md. Mofidul Islam Deputy Director	01. Participate in the 'Codex Committee on Food Additives (CCFA49)'.	China	20-03-2017	24-03-2017	FAO
07	Golam Md. Sarwar Assistant Director	01. Participate in the Dialogue workshop on 'Conformity Assessment Standards for Industries and Govern-ment officials from Bangladesh'.	India	24-05-2017	25-05-2017	India

04. Physical Testing Wing:

Sl. No.	Name & Designation of the Officers	Name of the Training/Activities	Country	Duration		Remarks (Source of Expenditure)
				From	To	
1	2	3	4	5	6	7
01	Shamim Ara Begum Director	01. Participate in the Dialogue workshop on 'Conformity Assessment Standards for Industries and Government officials from Bangladesh'.	India	24-05-2017	25-05-2017	India

05. Chemical Testing Wing :

Sl. No.	Name & Designation of the Officers	Name of the Training/Activities	Country	Duration		Remarks (Source of Expenditure)
				From	To	
1	2	3	4	5	6	7
01	Tapati Shah Rtd. Director	01. Participate in the 'LC-MS/MS for the Identification of chemical Contaminants in Foods'.	USA	17-10-2016	21-10-2016	FAO
02	Md. Khalilur Rahman Assistant Director	01. Participate in the 'LC-MS/MS for the Identification of chemical Contaminants in Foods'.	USA	17-10-2016	21-10-2016	FAO
03	Sharif Muhammad Syeduzzaman Assistant Director	01. Participate in the Knowledge Sharing Program on 'ISO TC 22003 Food Safety Management System Certification'.	Mongolia	25-07-2017	26-07-2017	PTB
04	Md. Rashedul Islam Sr. Examiner	01. Participate in the 'International Training Programme on Laboratory Quality Management System'.	India	30-01-2017	17-02-2017	ITEC



06. Metrology Wing:

Sl. No.	Name & Designation of the Officers	Name of the Training/Activities	Country	Duration		Remarks (Source of Expenditure)
				From	To	
1	2	3	4	5	6	7
01	Md. Anwar Hossain Molla Director	01. Pre-Inspection 'Establishment of Calibration & Verification Facilities of CNG Mass Flow Meter for CNG Filling Station In BSTI (2 nd Revised)'.	South Korea	19-01-2017	26-01-2017	CNG Project
		02. Participate in the 'Training Workshop on Solar Cells and LED Measurement Standards and Technologies'.	China	28-03-2017	30-03-2017	NMI of China
		03. Participate in the workshop on 'Metrology and National Quality Infrastructure, Metrology Legislation, Stakeholder Engagement and Awareness Raising and Quality Assurance'.	Malaysia	22-05-2017	26-05-2017	PTB
02	Md. Altab Hossain Director (BSTI Rajshahi Office)	01. Participate in the 'SAARC-PTB fifth Coordination Meeting on Regional Cooperation in Metrology'.	Bhutan	13-10-2016	14-10-2016	PTB
		02. Participate in the '2016 ISCP Cooperation Program with Bangladesh'.	Korea	09-11-2016	17-11-2016	KATS
03	Md. Rezaul Haque Deputy Director	01. Participate in the 'Life Cycle Assessment Training and ISO 14001 Practical Training of Trainers (TOT)'.	Thailand	31-10-2016	03-11-2016	SIDA
04	Md. Joydul Islam Deputy Director	01. Recalibration for some instruments of Mass Length and Temperature.	India	25-07-2016	29-07-2016	GoB
		02. Participate in the 'International Training Programme on Laboratory Quality Management System'.	India	30-01-2017	17-02-2017	ITEC
05	Mafiz Uddin Ahamed Assistant Director	01. Participate in the 'Train-The Trainer Course Verification of Non-automatic Weighting Instruments'.	Malaysia	28-11-2016	01-12-2016	PTB
06	Md. Abdullah Al Mamun Sr. Examiner	01. Participate in the 'Train-The Trainer Course Verification of Non-automatic Weighting Instruments'.	Malaysia	28-11-2016	01-12-2016	PTB
07	Muhammad Shafiqul Alam Sr. Examiner	01. Participation in the training Programme on 'Dimensional Metrology, Mass/Volume Metrology, Pressure Metrology and Temperature Hygrometry'.	India	05-09-2016	05-09-2016	PTB
08	Md. Zulfikar Ali Inspector	01. Participation in the training Programme on 'Dimensional Metrology, Mass/Volume Metrology, Pressure Metrology and Temperature Hygrometry'.	India	05-09-2016	05-09-2016	PTB
09	Md. Momen-Us-Sajjad Inspector	01. Participation in the 'Regional SAARC workshop on Certified Reference Material (CRM) Production'.	India	25-07-2016	26-07-2016	PTB
10	Mr. Shohag Haider Inspector	01. Participation in the Training course 'Metrology in Mass and Related Quantities'.	Korea	20-03-2017	31-03-2017	GMA & MEDEA

07 Certification Marks (CM) Wing:

Sl. No.	Name & Designation of the Officers	Name of the Training/Activities	Country	Duration		Remarks (Source of Expenditure)
				From	To	
1	2	3	4	5	6	7
01	Md. Nurul Islam Deputy Director	01. Participate in the 'Life Cycle Assessment Training and ISO 14001 Practical Training of Trainers (TOT)'.	Thailand	31-10-2016	03-11-2016	SIDA
02	K.M. Hanif Assistant Director	01. Participate in the Dialogue workshop on 'Conformity Assessment Standards for Industries and Government officials from Bangladesh'.	India	24-05-2017	25-05-2017	India
03	Md. Nozir Ahmmud Miah Assistant Director	01. Participate in the Advanced Training Course on Certification of Organic Products.	IR Iran	20-08-2016	24-08-2016	APO
04	Mr. Mohammad Arafat Hossain Sarker Assistant Director	01. Participate in the 'New Science for Food Safety : Supporting food chain Transparency for improved health'.	Singapore	07-11-2016	09-11-2016	Organizer of Singapore
05	Mr. Montosh Kumar Das Assistant Director	1. Participation in the 'Training Course on Quality Management Systems.	India	07-11-2016	08-11-2016	Govt. of India

Part- 3

Right to Information (RTI)



1. Right to Information (RTI) and Designated Officers

To Implement information disclosure policy according to Information Right Act-2009 BSTI assign designated officers of its Head Quarter and Regional offices. Name, designation and address of the designated officers are given below:

Sl. No.	Name of Designated Officers and Offices	Address	Telephone/Mobile/E-mail
01.	Mr. Md Taher Jamil Deputy Director (Admin-2) BSTI Head Office , Dhaka	Maan Bhaban 116-A, Tejgaon I/A Dhaka-1208	Tel: 02-8870291 Mob: 01723704505 Email: ddadmin1@bsti.gov.bd
02.	Mr. Md Salim Reza Deputy Director (CM) Rajshahi	BSTI Regional Office, Rajshahi Bipass Road, Nawdapara, Sapuura, Rajshahi	Tel: 0721-861398 Mob: 01718336096 Email :rajshahi@bsti.gov.bd
0.3	Engg. MrinalKanti Biswas Assistant Director (CM) Khulna	BSTI Regional Office, Khulna 62, Old Jessore road Khalishpur, Khulna	Tel: 041-761542 Mob: Email: khulna@bsti.gov.bd
04.	Mr. Md Mostak Ahamed Assistant Director (CM) Chittagong	BSTI Regional Office, Chittagong Jamburi Ground, Agrabad, Chittagong	Tel: 031-721137 Mob: 01715150042 Email: chittagong@bsti.gov.bd
05.	Mr. Md Jahidur Rahman Field Officer Barisal	BSTI Regional Office, Barisal BSCIC Industrial Park Kaunia, Barisal	Tel: 0431-65176 Mob: 01913802632 Email : barisal@bsti.gov.bd
06.	Mr. Md Tayab Ali Examiner (Physical) Sylhet	BSTI Regional Office, Sylhet BSCIC Industrial Park Khadimnagar, Syllhet	Tel: 0821-2870935 Mob: 01723538067 Email : sylhet@bsti.gov.bd

1.1 Appellate Authority:

BSTI is an Autonomous Body. The Director General of BSTI is the Chief Executive of the institution. The appellate authority of BSTI is given below:

Name of office	Appellate Authority	Address Appellate Authority
BSTI Head Office, Dhaka and its Divisional /Regional office; Dhaka/ Chittagong/Rajshahi/ Khulna/Barisal and Sylhet	Director General BSTI	Maan Bhaban 116-A, Tejgaon I/A Dhaka-1208

1.2 RTI Activities in July 2016- June 2017 (Comparative Figure with Previous Two Years)

SL.No.	Financial Year	Name of the Authority	Number of Application for Information	Number of Information Provided	Number of Appeals Filed	Number of Complaints Submitted	Amount of Cost Information Realized from Providing Information	Action Taken Against Designated Officer for Not Providing Information
1.	2014-2015	BSTI	04	04	Not Applicable	No Complain	No Cost Charge	Not applicable
2.	2015-2016	BSTI	04	04	Not Applicable	No Complain	No Cost Charge	Not applicable
3	2016-2017	BSTI	05	05	Not Applicable	No Complain	No Cost Charge	Not applicable



(Annexure)

List of 166 Products Brought Under the Mandatory Certification Mark Scheme

Till today 166 items of different products have been brought under the Compulsory Certification Marks Scheme by the Government of Bangladesh. Without having a quality certificate from BSTI for these products or without showing the BSTI logo on the label of the products manufacturing and marketing of those products are strictly prohibited.

A. Agricultural and Food Products (71 Items):

Sl.No.	Name of the products	Standards No.
1.	Plywood Tea-Chest	BDS 18:2006 (2 nd Revision)
2.	Mustard Oil	BDS 25:2015 (2 nd Revision)
3.	Refined Sugar	BDS 138: 2006 (2 nd Revision) Amendment 1: 2008
4.	Suji (Semolina)	BDS 190: 2016 (2 nd Revision)
5.	Wheat Atta	BDS 380:2007 (2 nd Revision)
6.	Maida	BDS 381:2007 (3 rd Revision)
7.	Bread	BDS 382:2016 (3 rd Revision)
8.	Biscuits	BDS 383:2001(2 nd Revision)
9.	Lozenges	BDS 490:2014 (3 rd Revision)
10.	Canned and Bottled Fruits	BDS 503:2006 (1 st Revision)
11.	Fruit Squashes	BDS 506 :2002 (2 nd Revision)
12.	Fruit Cordial	BDS 508:2006 (2 nd Revision)
13.	Sauce (Fruits or Vegetables)	BDS 512:2007 (1 st Revision)
14.	Fruits and Vegetables Juices.	BDS 513:2013 (3 rd Revision)
15.	Tomato Paste	BDS 517:2015 (3 rd Revision)
16.	Fermented Vinegar	BDS 523:2015 (2 nd Revision)
17.	Concentrated Fruit Juice	BDS 527:2015 (2 nd Revision)
18.	Fruit Syrup	BDS 528:2006 (2 nd Revision)
19.	Tomato Ketchup	BDS 530:2002 (2 nd Revision)
20.	Plywood for General Purposes	BDS 799: 2006 (2 nd Revision)
21.	Banaspati	BDS 804:2011 (2 nd Revision)
22.	Butter Oil and Ghee	BDS 908: 2012 (2 nd Revision)
23.	Soyabean Oil	BDS 909:1979 Amendment 1: 2000
24.	Turmeric Powder	BDS 991: 2001 (1 st Revision)
25.	Wheat Bran	BDS 997:2006 (1 st Revision)
26.	Edible Palm Oil	BDS 999:2000 (1 st Revision)
27.	Toffees	BDS 1000:2001 (1 st Revision)
28.	Chilies, Whole and Ground	BDS 1017:2001 (1 st Revision)
29.	Safety matches in boxes	BDS 1040:2006 (1 st Revision)
30.	Ice cream	BDS 1083:2006 (1 st Revision)
31.	Coriander powder	BDS 1084:2015 (1 st Revision)
32.	Mosquito Coils	BDS 1089: 2007 (2 nd Revision)
33.	Noodles	BDS 1106:2015 (2 nd Revision)
34.	Carbonated Beverages	BDS 1123:2013 (3 rd Revision)
35.	Malathion 57% (m/v) (Emulsifiable oncentrate)	BDS 1179: 2001(1 st Revision)
36.	Curry Powder	BDS 1205: 2013 (2 nd Revision)
37.	Iodized Salt	BDS 1236:2001 (1 st Revision), Amendment 1: 2007



Sl.No.	Name of the products	Standards No.
38.	Drinking Water	BDS 1240:2001 (1 st Revision)
39.	Natural Mineral Water	BDS 1414:2000 (1 st Revision)
40.	Lassi (yoghurt drink)	BDS 1470:2015 (1 st Revision)
41.	Instant Noodles	BDS 1552:2015 (2 nd Revision)
42.	Chips/Crackers	BDS 1556:2017 (1 st Revision)
43.	Chanachur	BDS 1564:2016 (1 st Revision)
44.	Refined Palm Olein	BDS 1567:2007 (1 st Revision)
45.	Cakes	BDS 1574: 2012 (2 nd Revision)
46.	Soft Drink Powder	BDS 1586:2007 (1 st Revision)
47.	Lachsa Semai	BDS 1620:2000
48.	Pasteurized Milk	BDS 1702:2002
49.	Fortified Soybean Oil	BDS 1769:2014 (1 st Revision)
50.	Fortified Edible Palm Oil	BDS 1770:2014 (1 st Revision)
51.	Fortified Edible Sunflower Oil	BDS 1773:2016 (1 st Revision)
52.	Fortified Edible Palm Olein	BDS 1774:2006 Amendment 1:2014
53.	Sweetend/Unsweated condensed filled milk	BDS 1780:2014 (1 st Revision)
54.	Cumin powder	BDS 1807:2008
55.	Fortified Edible Rice Bran Oil	BDS 1886:2014
56.	Dextrose Monohydrate	BDS CAC 8:2007
57.	Liquid Glucose (Glucose Syrup)	BDS CAC 9:2006
58.	Honey	BDS CAC 12:2007
59.	Edible Sunflower Oil	BDS CAC 23: 2002
60.	Canned Pineapple	BDS CAC 42:2007
61.	Infant Formula and Formulas for Special Medical Purposes Intended for Infants	BDS CAC-72: 2008
62.	Processed cereal based Food for Infants and Young Children	BDS CAC 074:2007
63.	Milk Powders and Cream Powder	BDS CAC 207: 2008 Amendment 1:2009
64.	Sugar	BDS CAC 212:2006
65.	Fermented Milk	BDS CAC 243 : 2015
66.	Pickled fruits and vegetables	BDS CAC 260:2014
67.	Jams, Jellies and Marmalades	BDS CAC 296:2014
68.	Butter	BDS CAC-A-1: 2002
69.	Sweetened Condensed Milk	BDS CAC A-4:2002
70.	Black Tea Definition and Basic requirements	BDS ISO 3720:2008
71.	Instant tea in solid form	BDS ISO 6079:2015

B. Chemical Products (42 items):

Sl.No.	Name of the products	Standards No.
72.	Laundry Soap	BDS 12:1991 (2 nd Revision) Reaffirmed 2014
73.	Toilet Soap	BDS 13:2006 (3 rd Revision) Amendment 1: 2008
74.	Ammonium Sulfate (Fertilizer)	BDS 36:1993, Amend 1 : 2008
75.	Coal Tar Black Paint (Alquatra)	BDS 69 (part-2):1991 Amendment 1:2006
76.	Ferro-gallo Tannate Fountain Pen Ink	BDS 88:1991, Amend 1 :2006
77.	Stamp Pad Ink	BDS 90: 2011 (2 nd Revision)

Sl.No.	Name of the products	Standards No.
78.	Coconut Oil	BDS 99:2007 (2 nd Revision)
79.	Ink, Duplicating for Twin Cylinder Rotary Machines	BDS 146:2002 2 nd Revision)
80.	Aluminium Sulphate, Non Ferric	BDS 149:2014 (2 nd Revision)
81.	Carbolic Soap	BDS 181:2001, Amend 1:2002
82.	Triple Super Phosphate (T.S.P.)	BDS 216:1991 (1 st Revision) Amendment 1,2 : 2007
83.	Urea (Fertilizer)	BDS 217: 2011 (2 nd Revision)
84.	Ribbons, Type writer	BDS 236:1998 (1 st Revision) Reaffirmed 2006
85.	Laundry Soap Powder	BDS 329:1991 (1 st Revision) Reaffirmed 2006
86.	Pencils	BDS 330:1993 (1 st Revision) Amendment 1 :2006
87.	Sole Leather (Vegetable Tanned)	BDS 340: 2012 (2 nd Revision)
88.	Internal combustion engine crankcase oils (diesel and gasoline)	BDS 343:2012 (1 st Revision)
89.	High Speed Diesel	BDS BDS 344:2016 (2 nd Revision)
90.	Unleaded Motor Gasoline-Premium	BDS 346:2010 (4 th Revision)
91.	Unleaded Motor Gasoline-Regular	BDS 347: 2010 (4 th Revision)
92.	Ready Mixed Paint, brushing, finishing semi gloss for general purpose.	BDS 402:1989 (1 st Revision) Amendment 1,2:2007
93.	Writing and Printing Papers	BDS 405: 2012 (2 nd Revision)
94.	Carbon Paper for type writer	BDS 411:1989 (1 st Revision) Amendment 1: 2006
95.	Ceramic Tableware	BDS 485:2000 (2 nd Revision) Amendment 1,2,3:2006
96.	Newsprint	BDS 845:2012 (2 nd Revision)
97.	Shoe Polish, Paste	BDS 1006:1981 Amend 1:2006
98.	Stencil Paper	BDS 1030:1998 (1 st Revision) Amendment 1:2006
99.	Tooth Paste	BDS 1216: 2012 (2 nd Revision)
100.	Shaving Cream	BDS 1241:2017 (1 st Revision)
101.	Shampoo surfactant based	BDS 1269:2014 (2 nd Revision)
102.	Skin Powders	BDS 1337:2015 (1 st Revision)
103.	Hair Oils	BDS BDS 1339:1991, Amendment 1: 2006
104.	Tooth Powder	BDS 1370:2017 (1 st Revision)
105.	Skin Cream	BDS 1382: 2015 (2 nd Revision)
106.	Ball Point Pens	BDS 1384:2002 (1 st Revision)
107.	Lipstick	BDS 1424:1993, Amend 1,2 :2006
108.	Tableware Made of Melamine moulding compound	BDS 1425:2009 (1 st Revision)
109.	Synthetic Detergent Powder	BDS 1445:2003 (1 st Revision)
110.	After Shave Lotion	BDS 1524:2006 (1 st Revision)
111.	Cement Paints	BDS 1706:2015 (1 st Revision)
112.	Baby toilet soap	BDS 1798:2008
113.	Tableware Made of Urea Moulding Compound	BDS 1825:2011 (1 st Revision)



C. Engineering Products (15 items):

Sl.No.	Name of the products	Standards No.
114.	Common Building Clay Bricks	BDS 208:2009 (3 rd Revision)
115.	Safety Razor Blades	BDS 219:2002
116.	Portable Fire Extinguisher	BDS 825:1991(1 st Revision) Reaffirmed 2007
117.	Bi-cycle Rim	BDS 986:2006 (1 st Revision)
118.	Mild Steel Pipe and G.I. Pipe	BDS 1031:2006 (1 st Revision)
119.	G P Sheet (with Corrugation)	BDS 1122:1987, Reaffirmed 2007
120.	Protective Helmets for Scooter & Motor Cycle Riders	BDS 1136:1986, Reaffirmed 2007
121.	Sanitary ware appliances	BDS 1162:2014 (3 rd Revision)
122.	Gas Mantles	BDS 1197:1988, Reaffirmed 2007
123.	Pipes and fittings made of unplasticized polyvinyl chloride (PVC-U) used for potable water supply.	BDS 1878:2015
124.	Aluminum and Aluminum alloys-Extruded profiles	BDS 1879: 2014
125.	Steel for the Re-enforcement of Concrete (Part-1 and Part-2)	BDS ISO 6935-1:2006 BDS ISO 6935-2:2006
126.	Ceramic Tiles- Definitions, classifications characteristics & marking	BDS ISO 13006:2015
127.	Cement- Part :1 Composition, Specifications and Conformity criteria for common Cement	BDS EN 197-1:2003 Reaffirmed 2010
128.	Bitumen and Bituminous Binders- Specification for Paving Grade Bitumen	BDS EN 12591:2009
	Bitumen and Bituminous Binders-Framework for specifying Cationic Bituminous Emulsions	BDS EN 13808:2009

D. Jute and Textile Products (11 items):

Sl. No	Name of the products	Standards No.
129.	Poplin Fabric	BDS 32:2011 (3 rd Revision)
130.	Cotton Sewing Thread	BDS 33:1989 (1 st Revision) Reaf- firmed 2005
131.	Cotton Canvas	BDS 319:2005 (3 rd Revision)
132.	Umbrella cloth	BDS 1125:2005 (1 st Revision)
133.	Polyester Blend Shirting (Market varieties)	BDS 1148:2011 (2 nd Revision)
134.	Polyester blend Suiting	BDS 1175:2011 (2 nd Revision)
135.	Rubber Flat Transmission Belting of Textile Construction for general uses	BDS 1199:2005 (1 st Revision)
136.	Rubber conveyor and elevator belting of ply construction. Part-1 for general use.	BDS 1200 (Part-1):2005 (1 st Revision)
137.	Industrial Sewing Threads made wholly or partly from syn- thetic fibres	BDS 1221:2011 (3 rd Revision)
138.	Textiles-Colour Fastness Ratings-Specification	BDS 1758:2006
139.	Textiles – Tests for Colour Fastness- Part E11: Colour Fast- ness to Steaming	BDS ISO 105- E11:2004

E. Electrical and Electronics Products (27 items):

Sl. No	Name of the products	Standards No.
140.	Tungsten filament lamps for domestic and similar general lighting purposes – Performance requirements	BDS 17:2006 (3 rd revision)
141.	Ceiling roses	BDS 116:2006 (2 nd revision)
142.	Lead acid starter batteries: (a) Part-1 General requirements and methods of test (b) Part-2 Dimensions of batteries and dimension and marking of terminals (c) Part-3 Dimension of batteries for heavy commercial vehicles	BDS 206 (Part-1):2002 (2 nd revision) BDS 206 (Part-2):2002 (2 nd revision) BDS 206 (Part-3):2002 (2 nd revision)
143.	Performance and construction of electric circulating fans and regulators (Ceiling and Deck-head fans, Pedestal fans and Table/Cabin fans with in-built regulators)	BDS 818: 1998 (1 st revision) Amendment 1:2006
144.	Insulated flexible cords: (a) Part-1 General requirements (b) Part-2 Requirements for rubber insulated flexible cords (c) Part-3 Requirements for PVC insulated flexible cords (d) Part-4 Flexible cords insulated with varnished glass fibre (e) Part-5 PVC insulated extensible leads (f) Part-6 Methods of test	BDS 899 (Part-1):2000 (1 st revision) BDS 899 (Part-2):2001 (1 st revision) BDS 899 (Part-3):2001 (1 st revision) Amendment 1:2009 BDS 899 (Part-4):2001 (1 st revision) BDS 899 (Part-5):2001 (1 st revision) BDS 899 (Part-6):2001 (1 st revision)
145.	PVC insulated cables (non armoured for electric power and lighting)	BDS 900:2010 (2 nd revision)
146.	Winding Wires: (a) Part 1 Enameled round copper winding wires (b) Part-2 Enameled rectangular copper winding wires (c) Part-3 Enameled round aluminium winding wires (d) Part-4 Enameled rectangular aluminium winding wires (e) Part-5 Test method	BDS 1034 (Part-1):2006 (1 st revision) BDS 1034 (Part-2):2006 (1 st revision) BDS 1034 (Part-3):2006 (1 st revision) BDS 1034 (Part-4):2006 (1 st revision) BDS 1034 (Part-5):2006 (1 st revision)
147.	Bare aluminium and aluminium alloy conductors for overhead power transmission	BDS 1036:2006
148.	Aluminium conductors steel re-inforced for overhead power transmission	BDS 1037:2003 (1 st revision)
149.	Three-phase induction motors	BDS 1139:1986, Amendment 1:2006
150.	Electronic type fan regulators	BDS 1323:1991, Amendment 1:2006
151.	Cut-out switches (Main switches)	BDS 1395:1993, Reaffirmed 2005
152.	Porcelain insulator for overhead power lines with a nominal voltage up to and including 1000 V	BDS 1543:2006 (1 st revision)
153.	Self-ballasted lamps for general lighting services – performance requirements	BDS 1734:2003
154.	Energy efficiency rating for self-ballasted lamps (integral type compact florescent lamps)	BDS 1761:2013 (1 st revision)
155.	Double-capped fluorescent lamps – Performance requirements	BDS IEC 60081:2006
156.	Primary batteries: (a) Part-1 General (b) Part-2 Physical and electrical specification (c) Part-3 Watch batteries (d) Part 4 Safety of lithium batteries (e) Part-5 Safety of Batteries with aquas electrolyte	BDS IEC 60086 (Part 1):2005 BDS IEC 60086 (Part 2):2005 BDS IEC 60086 (Part 3):2005 BDS IEC 60086 (Part 4):2005 BDS IEC 60086 (Part 5):2005
157.	Electric irons for household or similar use – Methods for measuring performance	BDS IEC 60311:2005



Sl. No	Name of the products	Standards No.
158.	Insulators for overhead lines with a nominal voltage over 1000 V (a) Part-1 Ceramic or glass insulator units for ac systems – Definitions, test methods and acceptance criteria (b) Part-2 Insulator strings and insulator sets for ac systems – Definition, test methods and acceptance criteria	BDS IEC 60383 (Part 1):2006 BDS IEC 60383 (Part 2):2006
159.	Power cables with extruded insulation and their accessories for rated voltage from 1 kV up to 30 kV (a) Part 1 Cables for rated voltage of 1 kV and 3 kV (b) Part-2 Cables for rated voltage from 6 kV up to 30 kV (c) Part-4 Test requirement of accessories for 6 kV up to 30 kV	BDS IEC 60502 (Part 1):2005 BDS IEC 60502 (Part 2):2005 BDS IEC 60502 (Part 4):2005
160.	Switches for household and similar fixed electrical installation – Part 1: General requirements	BDS IEC 60669 (Part 1):2007
161.	Plugs and socket-outlets for household and similar purposes– Part1:General requirements Part 2-1: Particular requirements for fused plugs Part 2-2: Particular requirements for socket-outlets for appliances Part 2-3: Particular requirements for switched socket-outlets without interlock for fixed installations Part 2-4: Particular requirements for Plugs and for SELV Part 2-5: Particular requirements for adaptors Part 2-6: Particular requirements for switched socket-outlets without interlock for fixed installation Part 2-7: Particular requirements for cord extension set	BDS IEC 60884 (Part 1):2016 BDS IEC 60884 (Part 2-1):2016 BDS IEC 60884 (Part 2-2):2016 BDS IEC 60884 (Part 2-3):2016 BDS IEC 60884 (Part 2-4):2016 BDS IEC 60884 (Part 2-5):2016 BDS IEC 60884 (Part 2-6):2016 BDS IEC 60884 (Part 2-7):2016
162.	Ballast for tubular fluorescent lamps – Performance requirements	BDS IEC 60921:2005
163.	AC supplied electronic ballasts for tubular fluorescent lamps – Performance requirements	BDS IEC 60929:2005
164.	Electricity metering equipment (ac) – Particular requirements – Part-11: Electromechanical meters for active energy (Class 0.5, 1 and 2)	BDS IEC 62053 (Part 11):2008
165.	Electricity metering equipment (ac) – Particular requirements – Part-21: Static meters for active energy (classes 1 and 2)	BDS IEC 62053 (Part 21):2013
166.	Self-ballasted LED lamps for general lighting services with supply voltage>50 V – Performance requirements	BDS IEC 62612:2015

List of Imported 54 Products brought under mandatory certification before Customs clearance

A. Agricultural and Food Products (23 Items):

Sl. No.	Name of the Products	Standards No.
1.	Milk Powders and Cream Powder	BDS CAC 207: 2008, Amend 1: 2009
2.	Fruit Cordial	BDS 508:2006
3.	Biscuit	BDS 383:2001
4.	Sauce (Fruit & Vegetable)	BDS 512:2007
5.	Lozenges	BDS 490:2014 (3 rd Revision)
6.	Tomato Ketchup	BDS 530:2002
7.	Jams (Fruit Preserves) and Jelly	BDS CAC 79:2008
8.	Carbonated Beverages	BDS 1123:2013
9.	Infant Formula and Formulas for Special Medical purposes intended for Infants	BDS CAC-72: 2008
10.	Fortified Soybean Oil	BDS 1769:2014 (1 st Revision)
11.	Soft Drink Powder	BDS 1586:2007
12.	Sugar	BDS CAC 212:2006
13.	Instant Noodles	BDS 1552:2007
14.	Fruit and Vegetable Juices	BDS 513:2013,
15.	Edible Sun Flower Oil	BDS 1773: 2016
16.	Chips/Crackers	BDS 1556:2017 (1 st Revision)
17.	Toffees	BDS 1000:2001
18.	Honey	BDS CAC 12:2007
19.	Processed Cereal based Foods for Infants and young children	BDS CAC 074: 2007
20.	Dextrose Monohydrate	BDS CAC 8:2007
21.	Liquid Glucose (Glucose Syrup)	BDS CAC 9:2006
22.	Mosquito Coils	BDS 1089: 2007
23.	Black Tea Definition & Basic requirements	BDS ISO 3720:2008

B. Chemical Products (14 items):

Sl. No.	Name of the Products	Standards No.
24.	Coconut Oil	BDS 99:2007
25.	Skin Creams	BDS 1382: 2011 (1 st Revision)
26.	Tooth Paste	BDS 1216: 2012
27.	Skin Powder	BDS 1337:2015 (1 st Revision)
28.	Shampoo, Synthetic Detergent based	BDS 1269:2014 (2nd Revision)
29.	Lipstick	BDS 1424:1993, Amend 1,2 :2006
30.	Toilet Soap	BDS 13:2006, Amend 1: 2008
31.	After Shave Lotion	BDS 1524:2006
32.	Ceramic Tableware	BDS 485:2000, Amend 1,2,3:2006
33.	Hair Oils	BDS BDS 1339:1991, Amend 1: 2006
34.	Writing and Printing Papers	BDS 405: 2012 (2nd Revision)
35.	News Print	BDS 845:2012 (2nd Revision)



Sl. No.	Name of the Products	Standards No.
36.	Pencils	BDS 330:1993, Amend 1 :2006)
37.	Ball Point Pens	BDS 1384:2002, Reaffirmed 2007

C. Textile Product (2) Items

Sl. No.	Name of the Products	Standards No.
38.	Polyester Blend Suiting	BDS 1175:2011 (2nd Revision)
39.	Polyester Blend Shirting (Market Varieties)	BDS 1148:2011(2nd Revision)

D. Electrical & Electronic Products (09) Items

Sl. No.	Name of the Products	Standards No.
40.	Primary Batteries:	
	a) Part-1 General	BDS IEC 60086 (Part-1):2005
	b) Part-2 Physical and Electrical Specification	BDS IEC 60086 (Part-2):2005
	c) Part-3 Watch Battery	BDS IEC 60086 (Part-3):2005
	d) Part -4 Safety of Lithium batteries	BDS IEC 60086 (Part-4):2005
	e) Part-5 Safety of Batteries with Aqueous Electrolyte	BDS IEC 60086 (Part-5):2005
41.	Performance & Construction of Electric circulating Fans & Regulators (Ceiling & Deck head fans, pedestal fans & table/cabin fans with in-built regulators)	BDS 818:1998, Amend 1: 2006
42.	Switches for household and similar fixed electrical installation Part 1- General requirements	BDS IEC 60669-1:2007
43.	Double- capped Fluorescent Lamps performance Requirements	BDS IEC 60081 :2006
44.	Ballast for Fluorescent Lamps Performance Requirements	BDS IEC 60921:2005
45.	Plugs and socket-outlets for household and similar purposes– Part1:General requirements Part 2-1: Particular requirements for fused plugs Part 2-2: Particular requirements for socket-outlets for appliances Part 2-3: Particular requirements for switched socket- outlets without interlock for fixed installations Part 2-4: Particular requirements for Plugs and for SELV Part 2-5: Particular requirements for adaptors Part 2-6: Particular requirements for switched socket- outlets without interlock for fixed installation Part 2-7: Particular requirements for cord extension set	BDS IEC 60884 (Part 1):2016 BDS IEC 60884 (Part 2-1):2016 BDS IEC 60884 (Part 2-2):2016 BDS IEC 60884 (Part 2-3):2016 BDS IEC 60884 (Part 2-4):2016 BDS IEC 60884 (Part 2-5):2016 BDS IEC 60884 (Part 2-6):2016 BDS IEC 60884 (Part 2-7):2016
46.	Electronic Type Fan Regulators	BDS 1323:1991, Amend 1: 2006
47.	Self-Ballasted Lamps for General Lighting Services- Performance Requirements	BDS 1734:2003
48.	Lead acid starter batteries (a) (Part-1) General requirements and methods of test. (b) (Part-2) Dimensions of batteries and dimension and marking of terminals. (c) (Part-3) Dimension of batteries for heavy commercial vehicles.	BDS 206 (Part-1) :2002 BDS 206 (Part-2) :2002 BDS 206 (Part-3) :2002

E. Engineering Products (06) Items

Sl. No.	Name of the Products	Standards No.
49.	Cement -Part :1 Composition, Specifications and Conformity criteria for common Cement	BDS EN 197-1:2003 Reaffirmed 2010
50.	Sanitary ware appliances	BDS 1162:2014 (3 rd Revision)
51.	G P Sheet (with Corrugation)	BDS 1122:1987, Reaffirmed 2007
52.	Ceramic Tiles- definitions, Classifications characteristics & marking	BDS ISO 13006: 2015
53.	Portable Extinguisher	BDS 825:1991, Reaffirmed 2007
54.	Safety Razor Blades	BDS 219:2002



BSTI

Maan Bhaban

116-A, Tejgaon Industrial Area

Dhaka-1208, Bangladesh

Phone: 882 8870275, 8870277, 9131582

8870281, 8870278, 8870280, 8870279

Fax: 88-02-9131581

E-mail: dg@bsti.gov.bd

bsti.gov.bd