Annual Report
2022-2023

Bangladesh Standards and Testing Institution (BSTI)
Ministry of Industries
Government of the People's Republic of Bangladesh

ANNUAL REPORT 2022-2023

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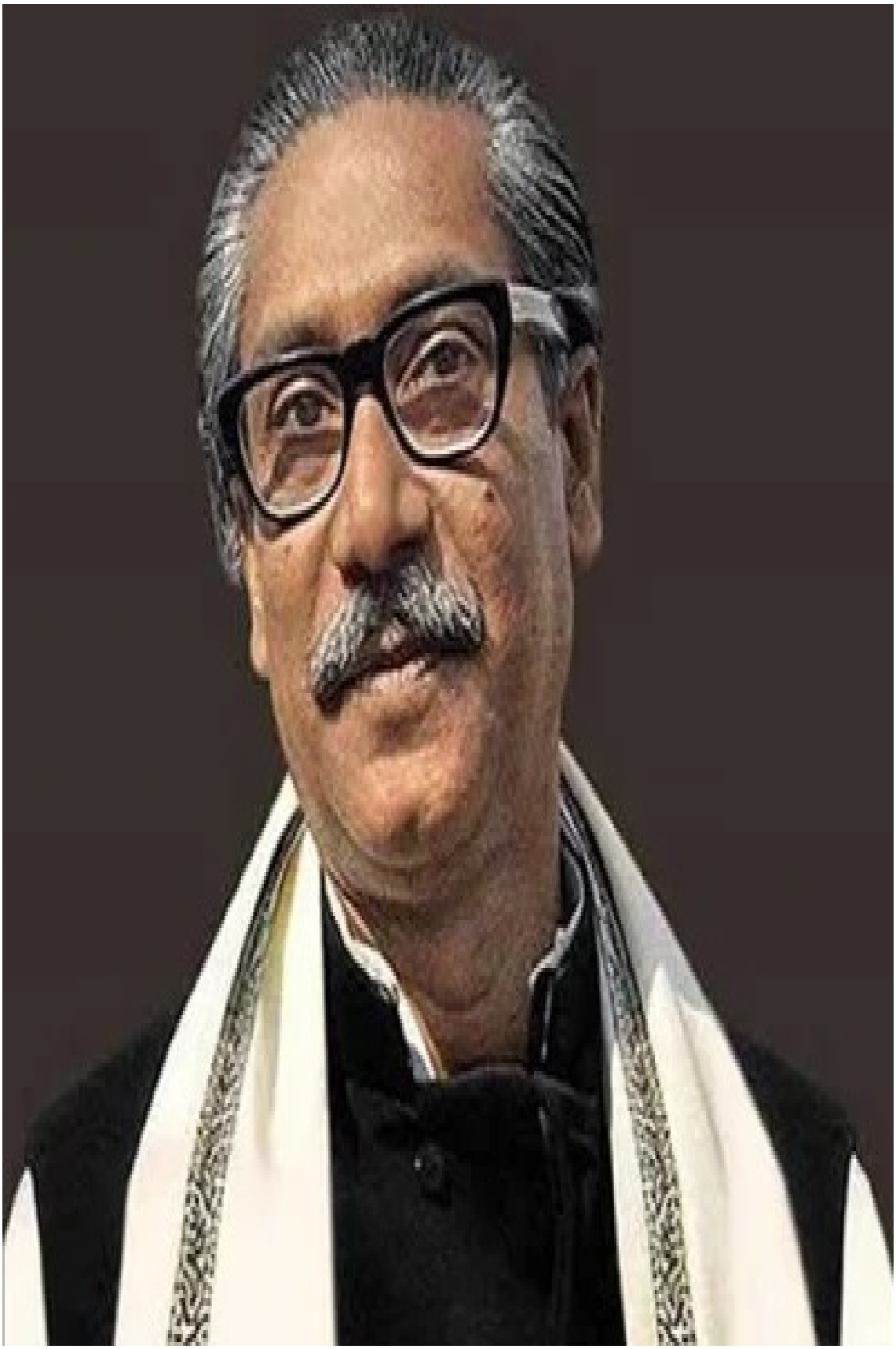


Minister
Ministry of Industries
The People's Republic of Bangladesh

MESSAGE

I am delighted to know that the Bangladesh Standards and Testing Institution (BSTI) is going to publish its Annual Report of the Fiscal Year 2022-23 which focuses the activities. It gives me immense pleasure to acknowledge the tireless efforts of the dedicated team of BSTI in upholding as Commitment to quality and softy standards in various sectors.

The trade and exports have been increasing all over the world. Therefore, the countries have given emphasis and efforts to produce quality goods and services to enhance the trade and exports. Bangladesh also has taken all initiatives for the development of all sectors including industrial sector under the dynamic and visionary leadership of the Honorable Prime Minister Her Excellency Sheikh Hasina. The Government is also giving more emphasis to strengthen the capacity of BSTI to formulate and implement the Bangladesh Standards of products and services.

Bangladesh has graduated as a middle-income country and committed to be a developed one by the year 2041. To fulfil this commitment, all the organs of the Government have been working with an action plan. We all have to work hard in building the 'Sonar Bangla', the dream of the Father of the Nation Bangabandhu Sheikh Mujibur Rahman. I hope BSTI will play its role to achieve this dream by their activities despite several adversity.

I believe this publication will help the stakeholders, consumers, business bodies, researchers and other organizations to get better understanding about the activities of BSTI and will be able to raise awareness among the business bodies and consumers on the necessity of products standards as well as to ensure correct weights and measures in business of the country.

I wish a wide circulation of the **Annual Report 2022-23** of BSTI.

Joy Bangla, Joy Bangabandhu.
Long Live Bangladesh.

(Nurul Majid Mahmud Humayun, M.P)

State Minister
Ministry of Industries
The People's Republic of Bangladesh

Message

It gives me immense pleasure to know that the Bangladesh Standards and Testing Institution (BSTI) is publishing a comprehensive Annual Report 2022-2023 on its activities.

In this rapidly changing world, where consumer expectation and technological advancements continue to evolve, the role of BSTI in maintaining quality and reliability is of utmost importance. The institution has successfully adopt to emerging challenges, embracing innovation in its process and systems. Standard is an inevitable part in all respects, particularly in industrial products and services. BSTI is responsible for formulating and implementing the standards of industrial products in Bangladesh. Its responsibilities also include correct weights and measures in trade and business. BSTI got the membership of International Organization for Standardization (ISO) by the great initiative of the Father of the Nation Bangabandhu Sheikh Mujibur Rahman in 1974.

BSTI has been working to expand its activities throughout the country to protect the interest of the consumers, stakeholders and business bodies and also to promote export of commodities from Bangladesh. This institution also working to ensure the quality of products and to prevent the production and distribution of substandard and adulterated products through mobile courts, surveillance, sample collection, testing and other necessary action throughout the country. The Government of Bangladesh under the dynamic and visionary leadership of the Honorable Prime Minister Her Excellency Sheikh Hasina has been working hard to achieve the SDGs goal by 2030 and to build a developed country by the year 2041.

I extend my heartfelt thanks to BSTI officials for their dedication and work in maintaining standards and implementation of Metric Systems in the country. I also appreciate this creative publication 2022-2023 of BSTI.

Joy Bangla, Joy Bangabandhu,
May Bangladesh live forever.

(Kamal Ahmed Mojumder MP)

Senior Secretary
Ministry of Industries
The People's Republic of Bangladesh

MESSAGE

I am very glad to know that Bangladesh Standards and Testing Institution (BSTI) is going to publish Annual Report on its activities over the Fiscal Year 2022-2023 like previous years.

BSTI is the national body to formulate Bangladesh Standards (BDS) for the products and services and issuing licences and certificates to the different companies and organizations. This institution is also responsible to ensure correct weights and measures and implementation of Metric Systems throughout the country. BSTI has been working with its full efforts to implement the above activities to protect the interests of consumers and stakeholders as well as to promote trade and exports.

I believe that all the activities, work process and other relevant information of the Institution are included in this publication. Through this, all the stakeholders, consumers, business bodies, researchers and other organizations will attain a clear understanding of the overall activities of BSTI and it also will help to increase confidence among the stakeholders, consumers, researchers and business bodies about the services of BSTI. I would like to extend my heartfelt greetings to all who are involved with this publication.

I wish a wider circulation of this Annual Report 2022-2023.

Joy Bangla, Joy BongoBondhu
Long Live Bangladesh

(Zakia Sultana)

Preface

It is our pleasure that we are going to publish the Annual Report 2022-2023 of Bangladesh Standards and Testing Institution (BSTI) 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 achievements.

As the National Standards Body of Bangladesh BSTI is entrusted with the responsibility of formulation of Standards, quality control, implementation and supervision of metric system including ensuring correct weights and measures in trade and commerce. BSTI has started issuing Halal Certificate to expedite the exports of the country. Issuance purity certificate of gold as per BDS, issuance of Management Systems Certificate as per ISO 9001, ISO 14001 and ISO 22000 standards are other important functions of BSTI. BSTI also responsible for implementation of the Metric System, verification of the weights and measures equipment and calibration services throughout the country. Recently BSTI has updated it's regulations and Packaged Commodities Rules to ensure the fair trade.

BSTI is working under the supervision of the Ministry of Industries to implement the program adopted by the government to transform Bangladesh into a developed and prosperous country by the year 2041 announced by the Hon'ble Prime Minister Her Excellency Sheikh Hasina. Under the visionary leadership of the Hon'ble Prime Minister the government is working to build a digital Bangladesh. As part of this concept, BSTI has started issuing online based certificates, license, test report with QR Code. The stakeholders will be able to verify the BSTI certificates, license and test reports using mobile apps. In addition to this, BSTI is also working to develop another online based software to receive application and all types of fees.

In order to expand the capacity of BSTI at field level and increase laboratory services, 3 (three) development projects have been submitted to the ministry for approval. Among these, a project has been taken to setup 10 (ten) regional offices with laboratories at district level namely: Gopalgonj, Gazipur, Narsingdi, Jashore, Patuakhali, Pabna, Noakhali, Dinajpur, Kushtia and Naogaon districts. Another project to establish and modernize 67 physical and chemical labs has taken. Furthermore, a project to establish and modernize 21 National Metrology Lab (NML) and for the construction of training institute of BSTI officials.A project is being implemented to modernize laboratories of BSTI in Chattogram and Khulna office. Construction of Khulna office has been completed.Vertical extension of existing 4 (four) divisional and district offices such as: Mymensing, Faridpur, Cumilla and Cox's Bazar have been started to accommodate labs and offices.

Heartfelt thanks and gratitude to all the BSTI officials for their co-operation and effort in publishing this Annual Report. We are hopeful that the readers will find this report informative. Any observation, view and recommendation from the eminent readers would be highly appreciated and will consider as precious contribution towards enriching the future publication of the report.

Md. Abdus Sattar
Director General (Grade-1)

CONTENTS

Acronyms

APMP	Asia-Pacific Metrology Program
ASTM	American Society for Testing and Materials
BAB	Bangladesh Accreditation Board
BARC	Bangladesh Agricultural Research Council
BCA	Bilateral Cooperation Agreement
BCSIR	Bangladesh Council of Scientific and Industrial Research
BDS	Bangladesh Standards
BDSI	Bangladesh Standards Institution
BFSA	Bangladesh Food Safety Authority
BIPM	International Bureau of Weights and Measures
BSTI	Bangladesh Standards and Testing Institution
CAB	Consumers Association of Bangladesh.
CAC	Codex Alimentarius Commission
CM	Certification Marks
CML	Chemical Metrology Laboratories
CTL	Central Testing Laboratories
DFTQC	Department of Food Technology and Quality Control
DNCRP	Directorate of National Consumer Rights Protection
EN	European Norms
EPB	Export Promotion Bureau
FBCCI	The Federation of Bangladesh Chambers of Commerce and Industry
FSSAI	Food Safety and Standards Authority of India
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
ITU	International Telecommunication Union
MoU	Memorandum of Understanding
MRA	Mutual Recognition Arrangement
MSC	Management Systems Certification
NA	Norwegian Accreditation
NABCB	National Accreditation Board for Certification Bodies
NABL	National Accreditation Board for Testing and Calibration Laboratories
NML	National Metrology Laboratories
NQI	National Quality Infrastructure
NSB	National Standards Body
OIC	Organisation of Islamic Cooperation
OIML	International Organization of Legal Metrology
RTI	Right To Information
SARSO	South Asian Regional Standards Organization.
SMIIC	The Standards and Metrology Institute for Islamic Countries
TBT	Technical Barriers to Trade
TCP	Technical Cooperation Program
UNIDO	United Nations Industrial Development Organization
WTO	World Trade Organization

Chapter – 1

Introduction

Vision and Mission of BSTI

Vision

Developing the Institution to formulate and implement the standards and ensuring correct weights and measures.

মান প্রণয়ন ও বাস্তবায়ন এবং সঠিক ওজন ও পরিমাপ নিশ্চিতকরণে যুগোপযোগী প্রতিষ্ঠান হিসেবে গড়ে তোলা।

Mission

To support expansion of domestic and international trade and to protect the interest of consumers and stakeholders through formulating and implementing standards of products & services and ensuring correct weights and measures.

পণ্য ও সেবার মান প্রণয়ন, বাস্তবায়ন এবং পণ্যের সঠিক ওজন ও পরিমাপ নিশ্চিতকরণের মাধ্যমে আন্তর্জাতিক ও আঞ্চলিক মানদণ্ডে উন্নীতকরণ এবং ভোক্তা ও অংশীজনের স্বার্থ রক্ষা করে দেশীয় ও আন্তর্জাতিক বাণিজ্যে সহায়তা প্রদান।

Brief History of BSTI

In 1955, 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. Government had abolished the Central Testing Laboratories and the Bangladesh Standards Institution and established a new organization, i.e. the Bangladesh Standards and Testing Institution (BSTI) was established as an autonomous body by promulgating Ordinance of 1985.

Inorder to implement the Metric System of Weights and Measures throughout the country, the Government had promulgated The Standards of Weights and Measures Ordinance, 1982. The Department of Agriculture Grading and Marketing was abolished and merged with BSTI in 1995.Bangladesh Standards and Testing Institution Act, 2018 and the Standards of Weights and Measures Act, 2018 have been enacted by repealing above two ordinances.

Laws and Rules Governing BSTI

আইন:

১। বাংলাদেশ স্ট্যান্ডার্ডস এন্ড টেস্টিং ইনস্টিটিউশন আইন, ২০১৮।

২। ওজন ও পরিমাপ মানদন্ড আইন, ২০১৮।

বিধিমালা:

১। বাংলাদেশ স্ট্যান্ডার্ডস অব ওয়েটস এন্ড মেজার্স রুলস, ১৯৮২ (সংশোধিত, ২০১৫)।

২। পণ্য মোড়কজাতকরণ বিধিমালা, ২০২১।

৩। বাংলাদেশ স্ট্যান্ডার্ডস এন্ড টেস্টিং ইনস্টিটিউশনের চাকুরি নিয়োগবিধি (এ্যামেন্ডমেন্ট), ২০০৫ ।

৪। দি কম্পিউটার পার্সোনেল রিক্রুইটমেন্ট রুলস, ১৯৮৫।

প্রবিধানমালা:

১। বাংলাদেশ স্ট্যান্ডার্ডস এন্ড টেস্টিং ইনস্টিটিউশন প্রবিধানমালা, ২০২২।

২। বাংলাদেশ স্ট্যান্ডার্ডস এন্ড টেস্টিং ইনস্টিটিউশন (ম্যানেজমেন্ট সিস্টেমস সার্টিফিকেশন) প্রবিধানমালা, ২০০৯।

৩। বাংলাদেশ স্ট্যান্ডার্ডস এন্ড টেস্টিং ইনস্টিটিউশন কর্মচারী (অবসরভাতা ও অবসরজনিত সুবিধাদি) প্রবিধানমালা, ২০০২।

৪। বাংলাদেশ স্ট্যান্ডার্ডস এন্ড টেস্টিং ইনস্টিটিউশন কর্মচারী চাকুরি প্রবিধানমালা, ১৯৮৯।

Act:

1. Bangladesh Standards and Testing Institutions Act, 2018.
2. Standards of Weights and Measures Act, 2018

Rules:

1. Bangladesh Standards of Weights and Measures Rules, 1982 (Revised, 2015).
2. Product Packaging Rules, 2021.
3. Bangladesh Standards and Testing Institution Recruitment Rules (Amendment), 2005.
4. The Computer Personnel Recruitment Rules, 1985.

Regulations:

1. Bangladesh Standards and Testing Institutions Regulations, 2022.
2. Bangladesh Standards and Testing Institution (Management Systems Certification Regulations, 2009.
3. Bangladesh Standards and Testing Institution Employees (Pension and Retirement Benefits) Regulations, 2002.
4. Bangladesh Standards and Testing Institution Employees Employment Regulations, 1989.

Functions of BSTI

a. To set up quality and dimensions of Bangladesh Standards and to prepare and promote the National Standards on national and international basis relating to materials, commodities, structures, practices and operations and to withdraw, revise, alter and amend the same from time to time;

b. To recommend the Government to consider develop the Bangladesh Standards for the measurement of length, weight, mass, volume, and energy;

c. Initiate to promote standard, quality control, metrology and make simplification in the field of industry and commerce;

d. To ensure that the Bangladesh Standards develop by the Institution are implemented/ followed by the producers and users;

e. To implement Bangladesh Standards through the National certification mark scheme or inspection of goods or both;

f. To Issue Halal Certificate and Management Systems Certificate to promote export of products from Bangladesh;

g. To provide or arrange facilities for examination, testing and inspection of products, system and process for any investigation, research or promotion of export and to fulfill this purpose issue test reports of any products related to relevant Bangladesh Standards;

h. To certify the quality of products, materials, procedure and other things including food materials, whether for local consumption, export or import;

i. 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;

j. To establish and publish the Bangladesh Standards of any article or process or code of practice, in such a manner as may be described in regulation;

k. To recognize, adopt or endorse any other standards in relation to any article or process developed by other institution in Bangladesh or any foreign country, or by international organizations as Bangladesh Standards, in such manner as may be prescribed in the regulation;

l. To specify a Standard Mark to be called the Bangladesh Standards and Testing Institution Certification Mark which shall be of specified design and contain which may be prescribed by the regulation to represent a Bangladesh Standard;

m. To grant, renew, reject, suspend or cancel of license by the specified procedure prescribed in the regulation for the use of Standard Mark;

n. 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 Standards or whether the Standard Mark has been improperly used in relation to any article or process with or without license;

o. 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;

p. To make arrangements, or provide facilities, for the testing and calibration of sensitive and scientific instruments, machineries and issue certificate which comply the relevant standard;

q. To undertake execution of any trust or any agency business which it may consider conducive to the attainment of its objectives;

r. To fulfill the establishment of the institution, co-operate with any person, association, or organization outside Bangladesh;

s. For the purpose of export classify and mark the Agricultural products according to the Agricultural Produce Grading and Marking Act, 1937 (Act No. 1 of 1937) and relevant rules framed under the Act. and

t. To do all such acts and things ancillary or incidental to any of the aforesaid functions.

Organs of BSTI_____

a) BSTI Council
b) Parliamentary Standing Committee of the Ministry of Industries
c) The Director General and Staff

a) BSTI Council

The general direction and administration of the affairs and functions of the Institution is vested with BSTI Council as per the provision of Bangladesh Standards and Testing Institution Act, 2018. Council exercise all powers and perform all functions as per the provision of the Act. The Council shall, in discharging its duties, be guided by such instructions as may be given to it by the Government from time to time.

Member List of BSTI Council (as per BSTI Act, 2018)

Sl.	Designation, Organization	Position in the Council	Sl.	Designation, Organization	Position in the Council
1	Honorable Minister Ministry of Industries	Chairman	2	Honorable State Minister Ministry of Industries	1st Vice-Chairman
3	Secretary Ministry of Industries	2nd Vice-Chairman	4	Director General, Bangladesh Standards and Testing Institution (BSTI)	Member-Secretary
5	Inspector General of Police, Bangladesh Police	Member	6	Chief Editor/Managing Director, Bangladesh Shangbad Sangstha	Member
7	Chief Information Officer Ministry of Information and Broadcasting	Member	8	Chief Controller, Import and Export	Member
9	Director General, Bangladesh Television	Member	10	Director General, Bangladesh Betar	Member

Part-1 (Member from Different Ministry/Division) (Not below the rank of Joint Secretary)					
Sl.	**Name of the Ministry**	**Position in Council**	**Sl.**	**Name of the Ministry**	**Position in Council**
1	Ministry of Industries	Member	2	Ministry of Agriculture	Member
3	Ministry of Fisheries & Livestock	Member	4	Finance Division	Member
5	Ministry of Commerce	Member	6	Posts and Telecommunication Division	Member
7	Health Services Division	Member	8	Energy and Mineral Resources Division	Member
9	Legislative and Parliamentary Affairs Division	Member	10	Ministry of Information and Broadcasting	Member
11	Ministry of Jute & Textile	Member	12	Public Security Division Ministry of Home Affairs	Member
13	Ministry of Public Administration	Member			

Part-2 (Head of the Organization/Institution)

Sl.	Designation, Organization	Position in Council	Sl.	Designation, Organization	Position in Council
1	President The Federation of Bangladesh Chamber of Commerce & Industry	Member	2	Chairman Bangladesh Food Safety Authority	Member
3	Director General Department of National Consumer Rights Protection	Member	4	President Dhaka Chamber of Commerce & Industries	Member
5	President Chattogram Chamber of Commerce & Industries	Member	6	President Metropolitan Chamber of Commerce & Industries	Member
7	President Consumer Association of Bangladesh	Member	8	President Bangladesh Chamber of Industries	Member
9	President Bangladesh Shop Owners Association	Member			Member

Part-3 (Head of the Organization/Institution)

Sl.	Designation, Organization	Position in Council	Sl.	Designation, Organization	Position in Council
1	Chairman Bangladesh Council of Scientific and Industrial Research	Member	2	Chairman Bangladesh Atomic Energy Commission	Member
3	Vice Chancellor Bangladesh University of Engineering and Technology	Member	4	Vice-Chairman Export Promotion Bureau	Member
5	Executive Chairman Bangladesh Agricultural Research Council	Member			

The 38th meeting of the BSTI Council held on 9th May, 2023 at BSTI Conference Room. Honorable Minister, Ministry of Industries, Mr. Nurul Majid Mahmud Humayun MP was the Chairperson of the meeting. Honorable State Minister, Ministry of Industries, Mr. Kamal Ahmed Majumder MP and Secretary, Ministry of Industries, Ms. Zakia Sultana were present as first and second Vice-Chairman of the meeting. Director General (Grade-1) of BSTI Mr. Md. Abdus Sattar was present as member-secretary and also moderator of the meeting.

b) Parliamentary Standing Committee of the Ministry of Industries

Sl.	Name	Constituency
1	Mr. Amir Hossain Amu MP Hon'ble Chairman of the Committee	126 Jhalokathi-2
2	Mr. Nurul Majid Mahmud Humayun MP Hon'ble Minister, Ministry of Industries and Member of the Committee	202 Narsindi-4
3	Mr. Kamal Ahmed Majumder MP Hon'ble State Minister, Ministry of Industries and Member of the Committee	188 Dhaka-15
4	Mr. A.K.M. Fazlul Haque MP Hon'ble Member of the Committee	145 Sherpur-3
5	Mr. Shamim OsmanMP Hon'ble Member of the Committee	207 Narayanganj-4
6	Mr. Abu Reza Muhammad Nezamuddin MP Hon'ble Member of the Committee	292 Chattogram-15
7	Mr. Mohammad Shahiduzzaman MP Hon'ble Member of the Committee	74 Meherpur-2
8	Mr. Kazim Uddin Ahmed MP Hon'ble Member of the Committee	156 Mymensingh-11
9	Begum Parveen Haque Sikder MP Hon'ble Member of the Committee	339 Women Seat-39
10	Mr. Md. Shafiul Islam MP Hon'ble Member of the Committee	183 Dhaka-10

c) 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 7 (seven) wings. Each wing is headed by a Director. The wings are:

There are 26 Divisions/Sections/Cells under 7 wings

No	Wing		Division/Section/Cell
1.	**Standards Wing**	a.	Agriculture and Food Division
		b.	Jute & Textile Division
		c.	Chemical Division
		d.	Electrical and Electronics Division
		e.	Civil and Mechanical Engineering Division
		f.	Halal Food and Products Division
		g.	Publication and Public Relations
2.	**Physical Testing Wing**	a.	Electrical and Electronics Engineering
		b.	Civil and Physical
		c.	Textile
3.	**Chemical Testing Wing**	a.	Chemical
		b.	Food and Bacteriological
4.	**Certification Marks (CM) Wing**	a.	Certification Marks
		b.	Halal Certification Division
		c.	Training and Motivation
5.	**Metrology Wing**	a.	Legal Metrology
		b.	Metrology Lab and Training
		c.	Industrial and Scientific Metrology
6.	**Administration Wing**	a.	Administration
		b.	Accounts and Audit
		c.	Planning and Development
		d.	Store
		e.	ICT Cell
		f.	Law
7.	**Management Systems Certification (MSC) Wing**	a.	Document Control
		b.	Internal Audit

BSTI Offices:

The Headquarters of the Institution is located at Dhaka. It has 8 Divisional and 3 District Offices. Address and other details of the head office, divisional and district offices are given below:

Head Office

Bangladesh Standards and Testing Institution
Maan Bhaban, 116/A, Tejgaon Industrial Area, Dhaka-1208.
Fax : 88-02-55030092
E-mail : dg@bsti.gov.bd, bsti@bangla.net
Website : www.bsti.gov.bd
Phone : +8802-55030054, +8802-55030069, +8802-55030080, +8802-55030076, +8802-55030083, +8802-48116665
Hotline : 16119

Divisional Offices

Divisional Metrology Inspectorate
116/A, Tejgaon Industrial Area
Dhaka-1208.
Phone : 8870300
Fax: 88 02 8870676
E-mail: bsti_dmi@bangla.net

BSTI Divisional Office, Rajshahi
Bipass Road, Nawdapara, Sapura,Rajshahi.
Phone: 0721-861397, 0721-561398
E-mail: bsti_raj@yahoo.com

BSTI Divisional Office, Chattogram
Jamburi Ground, Agrabad, Chattogram
Phone: 031-721137
E-mail: bsti_ctg@bnslbd.net
bstictg4100@gmail.com

BSTI Divisional Office, Barishal
BSCICIndustrial Park
Kaunia,Barishal
Phone: 0431-65176
E-mail: bsti_barisal@gmail.com

BSTI Divisional Office, Khulna
62, Old Jessore Road
Khalishpur,Khulna
Phone: 041-762152, 041-761542
E-mail: bsti_khulna@yahoo.com

BSTI Divisional Office, Sylhet
BSCIC Industrial Park
Khadimnagar, Sylhet
Phone: 0821-2870935
E-mail: bsti_sylhet@gmail.com

BSTI DivisionalOffice, Rangpur
R. K. Road, Ganeshpur
Post: Sadar, Rangpur-5400
Phone: 0521-56661
E-mail:bstirangpur@gmail.com

BSTI Divisional Office, Mymensingh
Kismot, Rahmotpur, Sadar
Mymensingh.
Phone: 01711160811
E-mail: bstimymensingh@gmail.com

District Offices

BSTI District Office, Cumilla
Batabaria
Dhaka-Chattogram Highway Road
Halima Nagar, South Sadar
Cumilla-3502.
Phone: 0173925827
E-mail: bsticomilla@gmail.com

BSTI District Office, Faridpur
BSCIC Industrial Area
Kanaipur
Faridpur-7801.
Phone: 01712000079
E-mail: bsti.faridpur@gmail.com

BSTI District Office, Cox's Bazar
Plot: 4-5, New Circuit House Road
Cox's bazar
Phone: 02-51060137
E-mail: bsticox@gmail.com

Regional Offices (Proposed)

1	BSTI Regional Office, Gopalgonj		6	BSTI Regional Office, Narayangonj
2	BSTI Regional Office, Jessore		7	BSTI Regional Office, Naogaon
3	BSTI Regional Office, Noakhali		8	BSTI Regional Office, Kustia
4	BSTI Regional Office, Patuakhali		9	BSTI Regional Office, Dinajpur
5	BSTI Regional Office, Gazipur		10	BSTI Regional Office, Pabna

Chapter – 2

Wings of BSTI and Their Functions

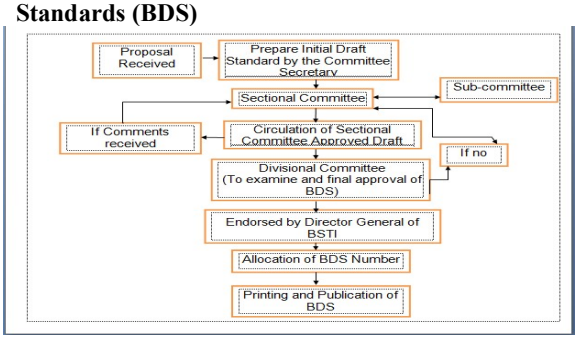
1. Standards Wing

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 modern technologies. Majority of these standards are harmonized from International Standards. BSTI has formulated 4,222 standards till June 2023. Approximately 60% of the exixting Bangladesh Standards (BDS) have been harmonized with International and Regional Standards (ISO, IEC, CAC, ASTM, SMIIC, EN etc.) to facilitate acceptance of Bangladeshi products in the International Market.

1. 1 Standards

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.

1.2 Flow Chart for the Development of Bangladesh Standards (BDS)



1.3 Standards Development Committees

There are 78 Sectional (Technical) Committees under 6 Divisional Committees have been assigned to perform the Standard development process. The Sectional (Technical) Committees are constituted by the Divisional Committees. Each Committees consists of one Chairman and a number of experts in their respective fields drawn from various organizations. There are also two National Committees; such as National Codex Committee (NCC) and IEC National Committee of Bangladesh. These committees comprise stakeholders mainly from industries, research organizations, trade bodies, academic institutions, consumer association, testing laboratories and the government agencies.

1.4 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. 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 also 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.

1.5 Participation in Regional and International Standardization Activities

As a member body of ISO, BSTI participated in ISO International Standardization activities. Currently, BSTI is Participating Member of 5 ISO committees and Observing Member of 22 ISO committees. Mr. Md. Abdus Sattar, Director General (Grade-1), BSTI participated in the FAO/WHO food standards program "26th session of Codex Committee on Residues of Veterinary Drugs in Foods(CCRVDF) on 13-17 February, 2023 in Portland, Oregeon, USA. Engr. Nilufa Hoque, Director (Standards), BSTI participated in the ISO Regional Workshop on Gender Action Plan on 29 November-01 December, 2022 in Manila, philippines. During this fiscal year, BSTI officials virtually participate in different workshops and training programs organized by The Standards and Metrology Institute for Islamic Countries (SMIIC) and Codex Alimentarius Commission (CAC).

Meeting of Engineering Sectional Committee

Meeting of Agricultural and Food Products Divisional Committee

Standards Development Committees

List of Divisional and Sectional (Technical) Committees:

(1) Agricultural and Food Products Divisional Committee

1.	AFSC-1	Cereals, Pulses and their Products
2.	AFSC-2	Oilseeds 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 , Vegetables and their Derived Products
11.	AFSC-16	Starch, Derivatives and their By-produ
12.	AFSC-17	Forest Products
13.	AFSC-18	Food 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
18.	AFSC-24	Bakery and Confectionary Products
19.	AFSC-25	Food Hygiene and Safety Management
20.	AFSC-26	Halal Food Products
21.	AFSC-27	Food Labelling and Packaging

(2) Electrical and Electronics Divisional Committee

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	Telecommunications
12.	EESC-15	Computer and Computer Related
13.	EESC-16	Information Technology
14.	EESC-17	Conformity Assessment
15.	EESC-18	Power Electronics

(5) Engineering (Civil) Divisional Committee

1.	CESC-1	Bricks, Blocks, Tiles, Paving Materials and Related Products
2.	CESC-2	Cement and Cementing Materials
3.	CESC-3	Structural Steel Sections and other Produ
4.	CESC-4	Pipe and Pipe Fittings
5.	CESC-5	Sanitary and Water Appliances
6.	CESC-6	Fire Fighting and Safety Equipments

(3) Chemical Divisional Committee

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
15.	CSC-15	Halal Cosmetics and Related Products

(4) Jute and Textile Divisional Committee

1.	JTSC-1	Jute Products
2.	JTSC-2	Oven and Other 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 and Other Natural Fibres
14.	JTSC-14	Man-Made Fibre and Products

(6) Engineering (Mechanical) Divisional Committee

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	Vehicles and Fuels
7.	MESC-7	Sports Goods

1.6 Agreement/MoU/TCP with other NSBs:

Type of Agreement	NSBs/Countries	Title of the MoU/Agreement
Memorandum of Understanding (MoU)	Bureau of Indian Standards (BIS), India	Memorandum of Understanding between Bangladesh Standards and Testing Institution (BSTI) and Bureau of Indian Standards (BIS).
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.
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 Standards Institution (SLSI), Sri Lanka	Memorandum of Understanding (MoU) between Bangladesh Standards and Testing Institution (BSTI) and the Sri Lanka Standards Institution (SLSI) on Technical Cooperation.
Memorandum of Understanding (MoU)	Turkish Standards Institution (TSE), The Republic of Turkey	Memorandum of Understanding (MoU) between the Bangladesh Standards and Testing Institution (BSTI), the People's Republic of Bangladesh and the Turkish Standards Institution (TSE), the Republic of Turkey.
Memorandum of Understanding(MoU)	ASTM International, USA	Bangladesh Standards and Testing Institution(BSTI), the People's Republic of Bangladesh and the ASTM International, USA.
Memorandum of Understanding (MoU)	The Standardization Administration of China (SAC), People's republic of China	Bangladesh Standards and Testing Institution(BSTI), the People's Republic of Bangladesh and The Standardization Administration of China (SAC), People's republic of China.
Memorandum of Understanding (MoU)	DFTQC, Nepal	Memorandum of Understanding between Bangladesh Standards and Testing Institution (BSTI) and DFTQC, Nepal.
Memorandum of Understanding (MoU)	Bangladesh Trade Facilitation Project (Funded by USDA)	Memorandum of Understanding between Bangladesh Standards and Testing Institution (BSTI) and Bangladesh Trade Facilitation Project (Funded by USDA)

1.7 Statistics of Bangladesh Standards (BDS) formulation (July 2022-June 2023)

SL.	Activities	2020-2021	2021-2022	2022-2023
1	Agriculture and Food	25	40	42
2	Chemical	30	39	45
3	Jute and Textile	32	40	42
4	Electrical and Electronics	47	42	43
5	Engineering	60	60	43
	Total =	**194**	**221**	**215**

1.8 List of Bangladesh Standards (BDS) formulation from July, 2022- June, 2023:

Agriculture and Food Division (Total 42 Standards):

SL.	Standard No.	Title
1.	BDS 1897:2022	Fortified Rice (1st Rev.).
2.	BDS CXS 74:2022	Processed cereal based food for Infants and Young Children.
3.	BDS CXS 153:2022	Maize (corn).
4.	BDS CXS 154:2022	Whole Maize (corn) Meal.
5.	BDS CXS 155:2022	Degermed Maize (corn) Meal and Maize (corn) Grits.
6.	BDS OIC/SMIIC 9:2022	Halal Tourism Services — General Requirements.
7.	BDS OIC/SMIIC 35:2022	Conformity Assessment — General Requirements for the Competence of Laboratories Performing Halal Testing.
8.	BDS OIC/SMIIC 36:2022	Conformity Assessment — General Requirements of Proficiency Testing for Halal Purposes.
9.	BDS ISO 20714:2022	E-liquid — Determination of nicotine, propylene glycol and glycerol in liquids used in electronic nicotine delivery devices — Gas chromatographic method.
10	BDS ISO 20768:2022	Vapour products — Routine analytical vaping machine — Definitions and standard conditions.
11	BDS 2008:2022	Decorated Cake.
12	BDS CXC 66:2022	Code of Hygienic Practice for Powdered Formulae for Infants and Young Children.
13	BDS ISO 6059:2022	Water quality — Determination of the sum of calcium and magnesium — EDTA titrimetric method.
14	BDS ISO 6777:2022	Water quality — Determination of nitrite - Molecular absorption spectrometric method.
15	BDS ISO 7027-2:2022	Water quality — Determination of turbidity - Part 2: Semi-quantitative methods for the assessment of transparency of waters.
16	BDS ISO 7393-2:2022	Water quality — Determination of free chlorine and total chlorine — Part 2: Colorimetric method using N,N-dialkyl-1,4-phenylenediamine, for routine control purposes.
17	BDS ISO 7887:2022	Water quality — Examination and determination of colour.
18	BDS ISO 7890-3:2022	Water quality — Determination of nitrate - Part 3: Spectrometric method using sulfosalicylic acid.
19	BDS ISO 10523:2022	Water quality — Determination of pH.
20	BDS ISO 10530:2022	Water quality — Determination of dissolved sulfide — Photometric method using methylene blue.
21	BDS 2014:2023	Wheat Flour for Industrial Use.
22	BDS 2015:2023	Virgin Coconut Oil.
23	BDS 1585:2023	Household Insecticide Aerosol (1st revision).
24	BDS CXS 192:2023	General Standard for Food Additives.
25	BDS CXS 19:2023	Edible Fats and Oils not covered by Individual Standards.
26	BDS CXS 33:2023	Olive Oils and Olive Pomace Oils.
27	BDS ISO 771:2023	Oilseed residues — Determination of moisture and volatile matter content.
28	BDS CXG 36:2023	Class Names and the International Numbering System for Food Additives.
29	BDS CXG 66:2023	Guidelines for the Use of Flavourings.
30	BDS JECFA INS 621:2023	Monosodium L-Glutamate.
31	BDS ISO 6887-3/Amd 1:2023	Microbiology of the food chain — Preparation of test samples, initial suspension and decimal dilutions for microbiological examination — Part 3: Specific rules for the preparation of fish and fishery products.
32	BDS ISO 6887-4:2023	Microbiology of the food chain — Preparation of test samples, initial suspension and decimal dilutions for microbiological examination — Part 4: Specific rules for the preparation of miscellaneous products.
33	BDS ISO 6887-6:2023	Microbiology of food and animal feed — Preparation of test samples, initial suspension and decimal dilutions for microbiological examination — Part 6: Specific rules for the preparation of samples taken at the primary production stage.

34	BDS ISO 9308-3/Cor 1:2023	Water quality — Detection and enumeration of *Escherichia coli* and coliform bacteria — Part 3: Miniaturized method (Most Probable Number) for the detection and enumeration of E. coli in surface and waste water.
35	BDS CXS 279:2023	Butter.
36	BDS CXS 281:2023	Evaporated Milks.
37	BDS CXS 282:2023	Sweetened condensed milk.
38	BDS CXS 288:2023	Cream and Prepared Creams.
39	BDS CXS 289:2023	Whey Powder.
40	BDS ISO 734:2023	Oilseed meals — Determination of oil content — Extraction method with hexane (or light petroleum.
41	BDS ISO 5506:2023	Soyabean products — Determination of urease activity.
42	BDS ISO 9167:2023	Rapeseed and rapeseed meals — Determination of glucosinolates content — Method using high-performance liquid chromatography.

Chemical Division (Total 45 Standards)

SL.	Standard No.	Title
43.	BDS 2007:2022	Glossary of Terms for Lubricants and Related Products.
44.	BDS 2010:2023	Halal Packaging – General Guidelines.
45.	BDS 2011:2023	General Guidelines for Halal Cosmetic and Personal Care Products.
46.	BDS 2012:2023	Ingredients, Production and Testing Methods of Halal Cosmetic and Personal Care Products.
47.	BDS 343:2022	Specification for Internal Combustion Engine Crankcase Oils for Automotive Application (Diesel and Gasoline) (Second Revision)
48.	BDS OIC/SMIIC 4:2023	Halal Cosmetics – General Requirements.
49.	BDS ASTM D92:2022	Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester.
50.	BDS ASTM D445:2022	Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids (and Calculation of Dynamic Viscosity).
51.	BDS ASTM D482:2022	Standard Test Method for Ash from Petroleum Products.
52.	BDS ASTM D611:2022	Standard Test Methods for Aniline Point and Mixed. Aniline Point of Petroleum Products and Hydrocarbon Solvents.
53.	BDS ASTM D1298:2022	Standard Test Method for Density, Relative Density, or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method.
54.	BDS ASTM D1401:2022	Standard Test Method for Water Separability of Petroleum Oils and Synthetic Fluids.
55.	BDS ASTM D1500:2022	Standard Test Method for ASTM Color of Petroleum Products (ASTM Color Scale).
56.	BDS ASTM D2500:2022	Standard Test Method for Cloud Point of Petroleum Products and Liquid Fuels.
57.	BDS ASTM D4294:2022	Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry.
58.	BDS ASTM D5185:2022	Standard Test Method for Multielement Determination of Used and Unused Lubricating Oils and Base Oils by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES).
59.	BDS ASTM D5800:2022	Standard Test Method for Evaporation Loss of Lubricating Oils by the Noack Method.
60.	BDS ASTM D6304:2022	Standard Test Method for Determination of Water in Petroleum Products, Lubricating Oils, and Additives by Coulometric Karl Fischer Titration.
61.	BDS ASTM D7042:2022	Standard Test Method for Dynamic Viscosity and Density of Liquids by Stabinger Viscometer (and the Calculation of Kinematic Viscosity).
62.	BDS ASTM D3829:2022	Standard Test Method for Predicting the Borderline Pumping Temperature of Engine Oil.
63.	BDS ASTM D4683:2022	Standard Test Method for Measuring Viscosity of New and Used Engine Oils at High Shear Rate and High Temperature by Tapered Bearing Simulator Viscometer at 150 °C.
64.	BDS ASTM D5293:2022	Standard Test Method for Apparent Viscosity of Engine Oils and Base Stocks Between –10 °C and –35 °C Using Cold-Cranking Simulator.
65.	BDS ASTM D5133:2022	Standard Test Method for Low Temperature, Low Shear Rate, Viscosity/ Temperature Dependence of Lubricating Oils Using a Temperature Scanning Technique.

66.	BDS ASTM D892:2022	Standard Test Method for Foaming Characteristics of Lubricating Oils.
67.	BDS ASTM D2896:2022	Standard Test Method for Base Number of Petroleum Products by Potentiometric Perchloric Acid Titration.
68.	BDS ASTM D664:2022	Standard Test Method for Acid Number of Petroleum Products by Potentiometric Titration.
69.	BDS ASTM D4629:2022	Standard Test Method for Trace Nitrogen in Liquid Hydrocarbons by Syringe/Inlet Oxidative Combustion and Chemiluminescence Detection.
70.	BDS ASTM D5291:2022	Standard Test Methods for Instrumental Determination of Carbon, Hydrogen, and Nitrogen in Petroleum Products and Lubricants.
71.	BDS ASTM D4951:2022	Standard Test Method for Determination of Additive Elements in Lubricating Oils by Inductively Coupled Plasma Atomic Emission Spectrometry.
72.	BDS ASTM D874:2022	Standard Test Method for Sulfated Ash from Lubricating Oils and Additives.
73.	BDS ASTM D2270:2023	Standard Practice for Calculating Viscosity Index from Kinematic Viscosity at 40 °C and 100 °C.
74.	BDS ASTM D3120:2023	Standard Test Method for Trace Quantities of Sulfur in Light Liquid Petroleum Hydrocarbons by Oxidative Microcoulometry.
75.	BDS ASTM D4052:2023	Standard Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter.
76.	BDS ASTM D4057:2023	Standard Practice for Manual Sampling of Petroleum and Petroleum Products.
77.	BDS ASTM D4684:2023	Standard Test Method for Determination of Yield Stress and Apparent Viscosity of Engine Oils at Low Temperature.
78.	BDS ASTM D5762:2023	Standard Test Method for Nitrogen in Liquid Hydrocarbons, Petroleum and Petroleum Products by Boat-Inlet Chemiluminescence.
79.	BDS ASTM D6749:2023	Standard Test Method for Pour Point of Petroleum Products (Automatic Air Pressure Method).
80.	BDS ISO 2493-1:2023	Paper and board – Determination of bending resistance – Part 1: Constant rate of deflection.
81.	BDS ISO 3782:2023	Paper and board – Determination of resistance to picking – Accelerating speed method using the IGT tester (Pendulum or spring model).
82.	BDS ISO 5630-1:2023	Paper and board – Accelerated ageing – Part 1: Dry heat treatment at 105 degrees C.
83.	BDS ISO 5630-2:2023	Paper and board – Accelerated ageing – Part 2: Moist heat treatment at 90 degrees C and 25 % relative humidity.
84.	BDS ISO 5630-3:2023	Paper and board – Accelerated ageing – Part 3: Moist heat treatment at 80 degrees C and 65 % relative humidity.
85.	BDS ISO 5630-4:2023	Paper and board – Accelerated ageing – Part 4: Dry heat treatment at 120 or 150 degrees C.
86.	BDS ISO 5634:2023	Paper and board – Determination of grease resistance.
87.	BDS ISO 5635:2023	Paper – Measurement of dimensional change after immersion in water.

Jute and Textile Division (Total 42 Standards)

SL.	Standards No.	Title
88.	BDS 2006:2022	Specification for Disposable diapers.
89.	BDS ISO 16900-1:2022	Respiratory protective devices—Methods of test and test equipment—Part 1: Determination of inward leakage.
90.	BDS ISO 16900-2:2022	Respiratory protective devices—Methods of test and test equipment—Part 2: Determination of breathing resistance.
91.	BDS ISO 16900-3:2022	Respiratory protective devices—Methods of test and test equipment—Part 3: Determination of particle filter penetration.
92.	BDS ISO16972:2022	Respiratory protective devices—Vocabulary and graphical symbols.
93.	BDS 1610:2022	Specification for Gent's Cotton Rib – Knitted Briefs 1x1, 2 Ply Rib — Knitted *(First Revision).*
94.	BDS 1611:2022	Specification for Gent's Cotton Briefs - Plain Knitted *(First Revision).*
95.	BDS ISO 8388:2022	Knitted fabrics — *Types — Vocabulary.*
96.	BDS ISO 4921:2022	Knitting — *Basic concepts — Vocabulary.*
97.	BDS ISO 8499:2022	Knitted fabrics — *Description of defects — Vocabulary.*
98.	BDS ISO 1833-1:2022	Textiles — Quantitative chemical analysis — Part 1: General principles of testing.
99.	BDS ISO 1833-2:2022	Textiles — Quantitative chemical analysis — Part 2: Ternary fibre mixtures.

100.	BDS ISO 1833-3:2022	Textiles — Quantitative chemical analysis — Part 3: Mixtures of acetate with certain other fibres (method using acetone)
101.	BDS ISO 1833-4:2022	Textiles — Quantitative chemical analysis — Part 4: Mixtures of certain protein fibres with certain other fibres (method using hypochlorite).
102.	BDS ISO 1833-6:2022	Textiles — Quantitative chemical analysis — Part 6: Mixtures of viscose, certain types of cupro, modal or lyocell with certain other fibres (method using formic acid and zinc chloride).
103.	BDS ISO 1833-9:2022	Textiles — Quantitative chemical analysis — Part 9: Mixtures of acetate with certain other fibres (method using benzyl alcohol).
104.	BDS ISO 1833-10:2022	Textiles — Quantitative chemical analysis — Part 10: Mixtures of triacetate or polylactide with certain other fibres (method using dichloromethane).
105.	BDS ISO 1833-25:2022	Textiles — Quantitative chemical analysis — Part 25: Mixtures of polyester with certain other fibres (method using trichloroacetic acid and chloroform).
106.	BDS ISO 1833-26:2022	Textiles — Quantitative chemical analysis — Part 26: Mixtures of melamine with certain other fibres (method using hot formic acid).
107.	BDS ISO 1833-27:2022	Textiles — Quantitative chemical analysis — Part 27: Mixtures of cellulose fibres with certain other fibres (method using aluminium sulfate).
108.	BDS ISO 1833-28:2022	Textiles — Quantitative chemical analysis — Part 28: Mixtures of chitosan with certain other fibres (method using diluted acetic acid)
109.	BDS ISO 1833-29:2022	Textiles — Quantitative chemical analysis — Part 29: Mixtures of polyamide with polypropylene/polyamide bicomponent (method using sulfuric acid).
110.	BDS 2009:2023	Specification for DW Jute Bags for Packing Onion Ginger and Garlic.
111.	BDS 894:2023	Specification for Packaging of Jute Products In Bales (*Second Revision*).
112.	BDS 1716:2023	Handloom Cotton Turkish, Honeycomb and Huckaback Towels and Towelling Cloth — Specification (*First Revision*).
113.	BDS 1792:2023	Handloom Cotton Dress Material Bleached, Dyed, Printed (*First Revision*).
114.	BDS ISO 9902-6:2023	Textile machinery — Noise test code — Part 6: Fabric manufacturing machinery.
115.	BDS ISO 11111-1:2023	Textiles Machinery — Safety Requirements —Part 1: Common Requirements.
116.	BDS ISO 10319:2023	Geotextiles — Wide Width tensile test.
117.	BDS ISO 10320:2023	Geotextiles — Identification of site.
118.	BDS ISO 11058:2023	Geotextiles — and geotextile — related products- Determination of water permeability characteristics normal to the plane, without load.
119.	BDS ISO 12957-1:2023	Geotextiles — Determination of friction characteristic Part 1: Direct shear test.
120.	BDS ISO 12958-2:2023	Geotextiles and geotextile-related products — Determination of water flow capacity in their plane — Part 2: Performance test.
121.	BDS ISO 12960:2023	Geotextiles and geotextile- related products- Screening test method for determining the resistance to acid and alkaline liquids.
122.	BDS ISO 13438:2023	Geosynthetics — Screening test method for determining the resistance of geotextiles and geotextile-related products to oxidation.
123.	BDS 2016:2023	Specification of Nonwoven Fabric for Wipes.
124.	BDS 2017:2023	Specification for Nonwoven Wipes.
125.	BDS ISO 11948-1:2023	Urine-absorbing aids — Part 1: Whole-product testing.
126.	BDS ISO 3071:2023	Textiles — Determination of pH of aqueous extract.
127.	BDS ISO 9073-1:2023	Textiles — Test methods for nonwovens - Part I : Determination of mass per unit area.
128.	BDS ISO 9073-6:2023	Textiles — Test methods for nonwovens — Part 6: Absorption
129.	BDS ISO 9073-18:2023	Textiles — Test methods for nonwovens — Part 18: Determination of breaking strength and elongation of nonwoven materials using the grab tensile test

Engineering Division (Total 43 Standards):

SL.	Standards No.	Name of the Standards
130.	BDS ISO 10295-1:2022	Fire Tests for building elements and components – Fire testing of service installations — Part 1: Penetration seals
131.	BDS ISO 10295-2:2022	Fire tests for building elements and components- Fire testing of service installations — Part 2: Linear joint (gap) seals
132.	BDS ISO TR 10295-3:2022	Fire tests for building elements and components- Fire testing of service installations — Part 3: Single component Penetration seals-Guidance on the construction and use of test configurations and simulated services to characterise sealing materials Linear Joint (gap) seals.
133.	BDS 1852:2022	Specification for Room Air Conditioners and Heat Pumps —Performance Requirements and Energy Labeling.
134.	BDS IEC 60335-2-6, Part 2-6:2022	Household and similar electrical appliances – Safety – Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances.
135.	BDS IEC 60335-2-14, Part 2-14:2022	Household and similar electrical appliances – Safety – Particular requirements for kitchen machines.
136.	BDS IEC60335-2-15, Part 2-15:2022	Household and similar electrical appliances – Safety – Particular requirements for appliances for heating liquids.
137.	BDS EC 60335-2-21, Part 2-21:2022	Household and similar electrical appliances – Safety – Particular requirements for Storage water heaters.
138.	BDS 1136:2022	Specification for Protective Helmets for Two Wheelers (Motorcycle, Scooter, Electric Vehicles) Riders.
139.	BDS ASTM D946/D946M:2023	Standard Specification for Penetration Graded Asphalt Binder for Use in Pavement Construction.
140.	BDS ASTM D2026/D2026M:2023	Standard Specification for Cutback Asphalt (Slow Curing Type).
141.	BDS ASTM D2027/D2027M:2023	Standard Specification for Cutback Asphalt (Medium-Curing Type)
142.	BDS ASTM D2028/D2028M:2023	Standard Specification for Cutback Asphalt (Rapid-Curing Type).
143.	BDS ASTM D977:2023	Standard Specification for Emulsified Asphalt.
144.	BDS ASTM D70:2023	Standard Test Method for Specific Gravity and Density of Semi-Solid Asphalt Binder (Pycnometer Method).
145.	BDS ASTM D7405:2023	Standard Test Method for MSCR of Asphalt Binder using Dynamic Shear Rheometer.
146.	BDS ISO/TS 24159:2023	Refuse collection vehicles — Safety of manual and rear-loaded refuse collection vehicles.
147.	BDS ISO 24160:2023	Refuse collection vehicles — Waste odour and leachate prevention and control.
148.	BDS ISO 24161:2023	Waste collection and transportation management — Vocabulary.
149.	BDS ISO 24162:2023	Test method for energy consumption of refuse collection vehicles.
150.	BDS ISO/TR 20736:2023	Sludge recovery, recycling, treatment and disposal — Guidance on thermal treatment of sludge.
151.	BDS EN 1501-2:2023	Refuse collection vehicles — General requirements and safety requirements — Part 2: Side loaded refuse collection vehicles.
152.	BDS EN 1501-4 :2023	Refuse collection vehicles and their associated lifting devices — General requirements and safety requirements — Part 4: Noise test code for refuse collection vehicles.
153.	BDS EN 1501-5:2023	Refuse collection vehicles — General requirements and safety requirements — Part 5: Lifting devices for refuse collection vehicles.
154.	BDS ISO 4000-1:2023	Passenger car tyres and rims — Part 1: Tyres (metric series).
155.	BDS ISO 22991:2023	Gas Cylinders — Transportable refillable welded steel cylinders for liquefied petroleum gas (LPG) — Design and construction.
156.	BDS ISO 4000-2:2023	Passenger car tyres and rims — Part 2: Rims.
157.	BDS ISO 4209-2:2023	Truck and bus tyres and rims (metric series) — Part 2: Rims.
158.	BDS ISO 16992:2023	Passenger car tyres — Spare unit substitutive equipment (SUSE).

159.	BDS ISO 29802:2023	All terrain (AT) tyres and rims — Symbol marked pneumatic tyres on 5 degrees tapered rims — Designation, dimension, marking and load ratings.
160.	BDS ISO 4223-1:2023	Definitions of some terms used in the tyre industry — Part 1: Pneumatic tyres
161.	BDS ISO 10191:2023	Passenger car tyres — Verifying tyre capabilities — Laboratory test methods.
162.	BDS ISO 10231:2023	Motorcycle tyres — Test methods for verifying tyre capabilities.
163.	BDS ISO 23671:2023	Passenger car tyres — Method for measuring relative wet grip performance — Loaded new tyres.
164.	BDS ISO 3911:2023	Wheels and rims for pneumatic tyres — Vocabulary, designation and marking.
165.	BDS ISO 15222:2023	Truck and bus tyres — Method for measuring relative wet grip performance — Loaded new tyres.
166.	BDS ISO 17464:2023	Pneumatic tubes for automotive vehicles — Technical requirements and test methods.
167.	BDS ISO 19940:2023	Tyre stiffness index testing procedure for passenger car extended mobility and run flat tyres.
168.	BDS ISO 28580:2023	Passenger car, truck and bus tyre rolling resistance measurement method — Single point test and correlation of measurement results.
169.	BDS ISO 4209-1:2012 Reaffirmed 2023	Truck and bus tyres and rims (metric series) — Part 1: Tyres.
170.	BDS ISO 5751-1:2012 Reaffirmed 2023	Motorcycle tyres and rims (metric series) — Part 1: Design guides.
171.	BDS ISO 5751-2:2012 Reaffirmed 2023	Motorcycle tyres and rims (metric series) — Part 2: Tyre dimensions and load-carrying capacities.
172.	BDS ISO 5751-3:2012 Reaffirmed 2023	Motorcycle tyres and rims (metric series) — Part 3: Range of approved rim contours.

Electrical and Electronics Division (Total 43 Standards):

SL.	Standards No.	Title of the standards
173.	BDS 818:2023	Comfort fans and regulators for household and similar purposes – Specification and methods for measuring performance.
174.	BDS 2018:2023	Guide for testing Single phase ac and universal motors.
175.	BDS 1367:2023	Single phase small ac and universal electric motors.
176.	BDS ISO/TS 9002:2023	Quality management systems – Guidelines for the application of ISO 9001:2015.
177.	BDS ISO 9004:2023	Quality management – Quality of an organization – Guidance to achieve sustained success.
178.	BDS ISO 10001:2023	Quality management – Customer satisfaction – Guidelines for codes of conduct for organizations.
179.	BDS ISO 10002:2023	Quality management – Customer satisfaction — Guidelines for complaints handling in organizations.
180.	BDS ISO 10003:2023	Quality management – Customer satisfaction — Guidelines for dispute resolution external to organizations.
181.	BDS ISO 10005:2023	Quality management – Guidelines for quality plans.
182.	BDS ISO 23326:2023	Human resource management — Employee engagement — Guidelines.
183.	BDS ISO/TS 24178:2023	Human resource management — Organizational culture metrics cluster.
184.	BDS ISO/TS 24179:2023	Human resource management — Occupational health and safety. metrics.
185.	BDS ISO 31030:2023	Travel risk management — Guidance for organizations.
186.	BDS ISO 31073:2023	Risk management — Vocabulary.
188.	BDS ISO 45003:2023	Occupational health and safety management — Psychological health and safety at work — Guidelines for managing.
189.	BDS ISO/PAS 45005:2023	Occupational health and safety management — General guidelines for safe working during the COVID-19.
190.	BDS ISO/IEC TS 17021-13:2023	Conformity assessment — Requirements for bodies providing audit and certification of management systems — Part 13: Competence requirements for auditing and certification of compliance management systems.
191.	BDS ISO/IEC TS 17021-14:2023	Conformity assessment — Requirements for bodies providing audit and certification of management systems — Part 14: Competence requirements

		for auditing and certification of management systems for records.
192.	BDS ISO/IEC 17030:2023	Conformity assessment — General requirements for third-party marks of conformity.
193.	BDS ISO/IEC 17060:2023	Conformity assessment — Code of good practice.
194	BDS ISO/IEC 27002:2023	Information security, cybersecurity and privacy protection — Information security controls.
195.	BDS ISO/IEC 27009:2023	Information security, cybersecurity and privacy protection — Sector-specific application of ISO/IEC 27001 — Requirements.
196.	BDS IEC 31010:2023	Risk management — Risk assessment techniques.
196.	BDS IEC 60034-1:2023	Rotating electrical machines — Part 1: Rating and performance.
197.	BDS IEC 60034-2-2:2023	Rotating electrical machines — Part 2-2: Specific methods for determining separate losses of large machines from tests - Supplement to IEC 60034-2-1.
198.	BDS IEC 60034-11:2023	Rotating electrical machines - Part 11: Thermal protection.
199.	BDS IEC 60034-12:2023	Rotating electrical machines — Part 12: Starting performance of single-speed three-phase cage induction motors.
200.	BDS IEC 60034-9:2023	Rotating electrical machines — Part 9: Noise limit.
201.	BDS IEC TS 60034-30-2:2023	Rotating electrical machines — Part 30-2: Efficiency classes of variable speed AC motors (IE-code).
202.	BDS IEC 60050-411:2023	International Electrotechnical Vocabulary (IEV) — Part 411: Rotating machinery.
203.	BDS IEC 60065:2023	Audio, video and similar electronic apparatus - Safety requirements.
204.	BDS IEC 60254-1:2023	Lead-acid traction batteries - Part 1: General requirements and methods of tests.
205.	BDS IEC 62087-1:2023	Audio, video, and related equipment - Determination of power consumption - Part 1: General.
206.	BDS IEC 62087-3:2023	Audio, video, and related equipment - Determination of power consumption - Part 3: Television sets.
207.	BDS IEC 62087-4:2023	Audio, video, and related equipment - Determination of power consumption - Part 4: Video recording equipment.
208.	BDS IEC 62087-5:2023	Audio, video, and related equipment - Determination of power consumption - Part 5: Set-top-boxes (STB).
209.	BDS IEC 62087-6:2023	Audio, video, and related equipment - Determination of power consumption - Part 6: Audio equipment.
210.	BDS IEC 62087-7:2023	Audio, video and related equipment - Methods of measurement for power consumption - Part 7: Computer monitors.
211.	BDS IEC 62232:2023	Determination of RF field strength, power density and SAR in the vicinity of base stations for the purpose of evaluating human exposure.
212.	BDS IEC 62311:2023	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz to 300 GHz)
213.	BDS IEC 62368-1:2023	Audio/video, information and communication technology equipment - Part 1: Safety requirements.
214.	BDS IEC 62479:2023	Assessment of the compliance of low-power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz).
215.	BDS IEC 63008:2023	Household and similar electrical appliances – Accessibility of control elements, doors, lids, drawers and handles.

2. Physical Testing Wing

Physical Testing Wing consists of 3 (three) Divisions which are as follows:

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

2.1 Civil, Physical and Mechanical Division:

Civil, Physical and Mechanical Division performs the functions through the following laboratories:

a) Cement Testing Laboratory

The purpose of this laboratory is to test different type of cements according to BDS EN 197-1. The laboratory has Compression Testing Machine (Capacity 250 kN) to test compression and flexural properties of cement. Automatic Morter Mixer and Jolting Machine with 3 gangs moulds are used to make moulds of cement-Morter mixer. There are Humidity & Temperature Control Cabinet and Curing Tank for conditioning the samples.

b) Brick Testing Laboratory

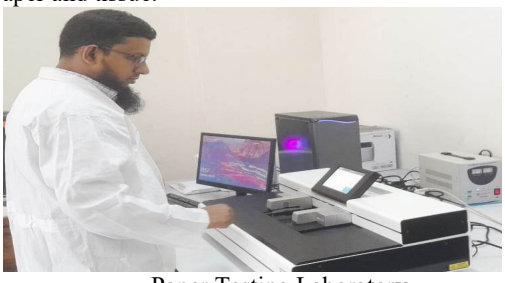
Compression Testing Machine (Capacity 250 Tons), Hot Air Oven, Weight Balance are used to test clay bricks, hollow bricks & blocks, Paving blocks etc.

c) Tiles Testing Laboratory

Flexural Strength Tester (Capacity 1000kg & 2000 kg), Abrasion Tester, Hot air oven are used to test various parameters of ceramic tiles according to BDS ISO 13006.

d) Paper Testing Laboratory

There are Air Permeability Tester, Brightness & Opacity Tester, Bendsten Roughness Tester, Horizontal Tensile Testing Machine (Capacity 100 N), Paper Tensile Tester (Capacity 5kg), Tear Testing Machine, Cobb Testing Device, Burst Testing Machine to analyze various properties of paper and tissue.



Paper Testing Laboratory

e) Metal Testing Laboratory

This Laboratory can analyze tensile properties, Compression, bend or flex of MS Rod, MS Sheet, MS/GI Pipe and other metal with Universal Testing Machine (UTM) (Capacity 1000kN & 50 Tons). BSTI has recently setup Universal Testing Machine (UTM) (Capacity 2000kN) to test tensile properties of MS rod upto 50 mm diameter according to BDS ISO 6935.

f) Blade Testing Laboratory

This laboratory can perform to test different parameters of safety razor blade and disposable razor blade with Vicker Hardness Tester and Bevel Angle Testing Machine.

g) Pipe & Plastics Testing Laboratory

BSTI has recently setup Universal Testing Machine (Capacity 50kN) for analyzing tension, compression, bend and flex of rubber and plastic products. Hydrostatic Pressure testing bench with three stations is used for pressure resistance of pipe.

Pipe & Plastics Testing Laboratory

h) Sanitary ware & Tableware Testing Laboratory

Hot Air Oven, Hot Bath, Weight Balance, Autoclave are used to test different properties of ceramic and sanitary products in this laboratory.

i) Gas Cylinder Testing Laboratory

BSTI has recently established Gas Cylinder Testing Laboratory, where hydrostatic test at specified pressure of Gas Cylinder can be performed. There are Hydrostatic Pressure testing machine with six stations and one station (Capacity 50 bar), Weight Balance (Capacity 100 kg) in this laboratory.

2.2 Electrical, Electronics and Engineering Division:

Electrical, Electronics and Engineering Division performs the functions through the following laboratories:

a) Refrigerator Testing Laboratory

The purpose of this laboratory is to test different type of refrigerator. The laboratory has 4 stations in its chamber to test 4 refrigerators at a time.

b) Motor Testing Laboratory

The purpose of this laboratory is to test Electric AC motors performance both of single-phase and three-phase.

c) Fan Testing Laboratory

This Laboratory can analyze various technical features of electric fan as per BDS 818:2006 & BDS 1860:2012. The Laboratory has Multi-Channel Air Flow measuring device, Which can perform simultaneous measurement of air velocity, temperature and humidity in real-time at 32 positions using USB based sensors.

d) Energy Meter Testing Laboratory

Energy Meter Testing Laboratory has computerized automatic digital single phase AC energy meter test benches to test Electro mechanical meter, Static watt hour meter and Pre-payment meter of different classes.

Energy Meter Testing Laboratory

e) L.A.S Battery Testing Laboratory

This Laboratory has Battery cycle life tester, Discharge capacity tester, Reserve capacity tester, Multi channels formation equipment and High rate discharger. This Laboratory having automatic Charging and discharging facilities can test different type of LAS Battery, Solar Battery and EV Battery.

f) Cable Testing Laboratory

Cable Testing Lab is well equipped with modern instrument to test different kind of cable such as PVC insulated cable, Flexible cord, Power cable, XLPE cable, AAC and ACSR.

g) Lighting Product Testing Laboratory

All kind of Tubular fluorescent lamp, Compact fluorescent lamp, Incandescent lamp, LED light, Neon light, Halogen light, LED Street light, Electronic ballast & magnetic ballast are tested in this laboratory.

Lighting Product Testing Laboratory

h) Air Conditioner Testing Laboratory:

This Laboratory can analyze various technical features of Air Conditioners with Air-Enthalpy Method by means of measuring the air temperature, air flow, pressure and electric parameter of the tested unit to testing cooling capacity & heating capacity. The split type, cassette type, window type, cabinet type Air Conditioner can be tested in this lab. System has the functions of semi-auto working condition control, auto testing, recording and auto-made & printing test report. **Recently Air Conditioner Lab has been Accredited by BAB.**

i) Super Enameled Copper Wire Testing Laboratory

Super enameled copper wires those are use in electric motor, Transformer, Ceiling fan are tested in this laboratory.

j) Bakelite Testing Laboratory

Switch, Plug, Socket, and Ceiling Roses are tested in this laboratory.

k) Transformer Testing Laboratory

Single Phase Transformer and Three Phase Transformer are tested in this laboratory.

l) Photovoltaic Inverter(PV) Testing Laboratory

Photovoltaic Inverter (PV) is one of the main equipment in a solar system. But there is not any laboratory in our country to test the PV Inverter. BSTI has established a Photovoltaic Inverter (PV) Testing Laboratory. All kinds of Heavy Duty Batteries, Electric Vehicle Charger can also test in this laboratory.

Photovoltaic Inverter(PV) Testing Lab.

The following other electrical products are also tested at BSTI:

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

2.3 Textile Testing Division

It performs the functions through the following laboratories:

1. Textile Mechanical Laboratory
2. Textile Chemical Laboratory

Textile Mechanical Laboratory

2.4 Activities of Physical Testing Wing

SL.	Activities	2020-2021	2021-2022	2022-2023
1.	Electric Energy Meter tested	499247 Nos	391820 Nos	492318 Nos.
2.	a) Civil, Physical & Mechanical samples tested b) Electrical samples tested c) Textile samples tested	13159 Nos	13112 Nos	15291 Nos.
3.	Revenue Income (in lac.)	Tk. 484.34	Tk. 505.61	Tk. 807.47

3. Chemical Testing Wing

BSTI Chemical Laboratory established in 1955. It has an envious track record of serving several market leaders across the globe. The Functions of Chemical Testing Wing is to ensure the quality and safety of Food, Agricultural products, Organic and Inorganic Industrial products produced locally/imported by testing with modern equipment as per National and International Standards. 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 case on disputes of quality;
- Samples seized by the Police/RAB;
- Sample received from individuals or Private sector.

3.1 Food and Bacteriology Division

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

Cereal and Bakery Products Laboratory:

Test Items: Biscuits, Chanachur, Noodles, Instant Noodles, White Bread, Lachsa Shemai, Cake, Muri, Corn Flakes, Oats, Roti (Flat/Bread) etc.

Spices and Condiments Laboratory:

Test Items: Chillies (Whole & Ground), Turmeric powder, Coriander powder, Cumin powder, Curry Powder, Suji, Atta, Maida etc.

Milk and Milk Products Laboratory:

Test Items: Pasteurized milk, Toffees, yoghurt & Sweetened yoghurt, Ice-cream, Ice-lolly, Whole milk powder & Skimmed milk powder, Infant formula, A Blend of Skimmed milk and Vegetables fat in powder Form, UHT Milk, Flavoured Milk, Butter oil, Ghee etc.

Processed Fruits Products and Fruit Drinks Laboratory

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

HPLC for Food Color

LC-MSMS

Oils and Fats Products Laboratory

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

HPLC for Vitamin

Water and Beverages Laboratory

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

UV-Visible Spectrophotometer

Microbiological Laboratories

Test Items: Fruit juice, Fruits drinks, Tomato ketchup, Tomato paste, Chutney, Fruit squash, Skin Cream, Shampoo, Toothpaste, Baby Products, Hair Oil, etc.

Microbiological Lab

3.2 Chemical Division

Chemical Divisions perform the tests through the following laboratories.

Soap and detergent laboratories:
Test Items: Toilet soap, Laundry soap, Carbolic soap, Synthetic detergent powder, Household Dish washing Liquid, Floor Liquid Detergents, Liquid Toilet Cleaner, Liquid Hand Wash, Alcohol Based Hand Sanitizer and Shampoo.

Soap and detergent Lab

Cosmetic products laboratory:
Test Items: Skin Cream, After Shaving Lotion, Lipstick, Shaving Cream, Hair oil, Skin and Face Powder, Coconut oil, Natural Henna/Mehedi (Powder and paste), Nail Polish, Face wash, Petroleum jelly, Eye care Products, Shaving Foam, Hair Dyes (Liquid).

Ceramic products laboratory:
Test Items: Ceramic tableware, Tiles, Tableware made of Melamine Moulding Compound, Glass Tableware etc.

Gold testing laboratory:
Test Items: Ornaments and Medal made of Gold, Silver, Bronze etc.

Paper and pulp laboratory:
Test Items: Stencil Paper, Writing and Printing Paper, Newsprint Paper, Security Paper, Carbon Paper etc.

Leather products laboratory Test Items: Leather Products, Shoe Polish, Direct Moulded Sole (DMS) etc.

Building materials Laboratory:
Test Items: MS Rod, GP Sheet and CGS Sheet, Cement, Polyethylene (PE) pipes, uPVC Pipes etc.

Building materials Laboratories

Petrol And Petroleum Products laboratory:
Test Items: Internal Combustion Engine Crankcase Oils (Diesel and Gasoline), Unleaded Motor Gasoline Premium (Octane) Unleaded Motor Gasoline regular (Petrol), Hi Speed Diesel, Bitumen, Alkatra.

Chemical fertilizer Laboratory:
Test Items: Chemical fertilizer (Organic & inorganic), TSP, Ammonium Sulphate.

Instrumental Laboratories:

ICP-OES

- ☐ AAS and GC Lab (Toxic Metal (As, Pb, Fe, Hg etc. and Erucic Acid)
- ☐ GC-MS Lab (Melamine)
- ☐ HPLC Lab (Hydroquinone, Vitamins, Preservatives, Caffeine etc)
- ☐ LC MSMS Lab
- ☐ GC MSMS Lab

3.3 Innovative Work of Chemical Testing Wing:

1. Development of analytical method for analysis of food color (Sunset Yellow and Tartrazine) in Processed Fruit products and Carbonated Beverage by HPLC.
2. Development of analytical method for analysis of Benzoic Acid and Sorbic Acid for fruits and vegetable products by HPLC.
3. Determination of Antibiotic Residues in Pasteurized milk by LC-MS/MS.
4. Development of analytical method for analysis of Sorbic Acid of Carbonated Beverage by HPLC.
5. Development of analytical method for analysis of migration of Antimony, Lead, Cadmium, Chromium, Nickel and Mercury from Containers into Mineral Water and Drinking Water by Atomic Absorption Spectrophotometer (AAS).
6. Development of analytical method for analysis of migrated Acetaldehyde from Containers into Mineral Water and Drinking Water by Gas-Chromatograph (GC).
7. Development of analytical method for analysis of Composition of Hand Sanitizer by Gas-Chromatograph (GC).
8. Development of analytical method for analysis of Hydroquinone in Skin Cream by HPLC.

3.4 Activities of Chemical Testing Wing:

Activities	2020-21	2021-22	2022-23
Number of Tested Food Commodities, Organic Commodities and Inorganic Commodities	28016	29507	30185
Revenue Income (in lac Tk.)	2362.73	2288.76	2823

4.Metrology Wing

Metrology is the scientific study of measurement. Metrology is defined by the International Bureau of Weights and Measures (BIPM) as "the science of measurement, embracing both experimental and theoretical determinations at any level of uncertainty in any field of science and technology".It establishes a common understanding of units, crucial to human activity. Metrology is a wide reaching field, but can be summarized through three basic activities: the definition of internationally accepted units of measurement, the realisation of these units of measurement in practice, and the application of chains of traceability (linking measurements to reference standards). These concepts apply in different degrees to metrology's three main fields:

- scientific metrology;
- applied, technical or industrial metrology; and
- legal metrology.

Scientific metrology:

Scientific metrology is concerned with the establishment of units of measurement, the development of new measurement methods, the realisation of measurement standards, and the transfer of traceability from these standards to users in a society. This type of metrology is considered the top level of metrology which strives for the highest degree of accuracy. BIPM maintains a database of the metrological calibration and measurement capabilities of institutes around the world. These institutes, whose activities are peer-reviewed, provide the fundamental reference points for metrological traceability. In the area of measurement, BIPM has identified nine metrology areas, which are:

- acoustics;
- electricity and magnetism;
- length;
- mass and related quantities;
- photometry and radiometry;
- ionizing radiation;
- time and frequency;
- thermometry; and
- chemistry.

Applied, technical or industrial metrology:

Applied, technical or industrial metrology is concerned with the application of measurement to manufacturing and other processes and their use in society, ensuring the suitability of measurement instruments, their calibration and quality control. Producing good measurements is important in industry as it has an impact on the value and quality of the end product, and a 10–15% impact on production costs. Although the emphasis in this area of metrology is on the measurements themselves, traceability of the measuring-device calibration is necessary to ensure confidence in the measurement. Recognition of the metrological competence in industry can be achieved through mutual recognition agreements, accreditation, or peer review. Industrial metrology is important to a country's economic and industrial development, and the condition of a country's industrial-metrology program can indicate its economic status.

Legal metrology:

Legal metrology "concerns activities which result from statutory requirements and concern measurement, units of measurement, measuring instruments and methods of measurement and which are performed by competent bodies". Such statutory requirements may arise from the need for protection of health, public safety, the environment, enabling taxation, protection of consumers and fair trade. The International Organization for Legal Metrology (OIML) was established to assist in harmonising regulations across national boundaries to ensure that legal requirements do not inhibit trade. This harmonisation ensures that certification of measuring devices in one country is compatible with another country's certification process, allowing the trade of the measuring devices and the products that rely on them.

BSTI Metrology wing is conducting its duties by two parts:

1. **National Metrology Laboratory (NML):**
   Responsible for Scientific, applied, technical and industrial metrology activities.
2. **Legal Metrology:**
   Responsible for legal activities.

1. National Metrology Laboratory (NML):

NML 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 as well as 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 measurement 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 requirements.

There are seven laboratories in the National Metrology Laboratory. These are as follows:

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

Three Regional Calibration Laboratory (RCL) are established at Dhaka, Chattogram and Khulna offices. NML laboratories acquired accreditation from Norwegian Accreditation (NA) and Bangladesh Accreditation Board (BAB). Presently NML laboratories are participating in dirrerent Key Comparisons to publish its Calibration and Measurement Capabilities (CMC) in BIPM KCDB.

Activities of NML:

i) To establish and maintain the national measurement system.
ii) To provide traceability to the International System of Units (SI) to the national system.
iii) Offer technical supports to industry related to measurements, reference materials, calibrations and data to establish traceability of their measurements.
iv) To participate 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.
v) To facilitate international harmonization and compatibility of measurements.
vi) Represents the country in the Regional Metrology Organization (RMO) and the world wide metrology system coordinated by BIPM.
vii) Maintaining accreditation for NML laboratories.
viii) Providing calibration services.
ix) To participate in internationally organized inter-laboratory comparison measurements.
x) Development of reference standards of the national measurement system.

Scope of NML-BSTI Calibration Services:

Field/ Parameter	Quantity/ Instrument	Measurement Range	Expanded Uncertainty (k=2)
Mass	Mass Standard	1-100 mg	0.003 - 0.005 mg
	Mass Standard	0.1 – 1 g	0.005 - 0.010 mg
	Mass Standard	1 – 10 g	0.010 - 0.020 mg
	Mass Standard	10-100 g	0.020 -0.050 mg
	Mass Standard	100 g – 1 kg	0.050 -0.5 mg
	Mass Standard	1 kg – 10 kg	0.5 -5 mg
Volume	Glassware – Flasks, pipettes, burettes, measuring cylinders, pycnometers, Beaker	1 – 500 ml	0.002-0.3 ml
	Micropipette	20 ΄l - 200 ml	0.07 - 20 ΄l
Temperature	Liquid in glass thermometer	(-50 to 250) ^{0}C	0.07 ^{0}C
	Direct Reading Thermometer	-50 ^{0}C	0.05 ^{0}C
		0 ^{0}C	0.039 ^{0}C
		(50 to 250) ^{0}C	0.058 ^{0}C
		250 to 650 ^{0}C	0.1 ^{0}C
Length	Engineers tape measure	0-10 m	0.08 mm
	Engineer steel rule	0-1500 mm	0.06 mm
	Dial Gauge	0-100 mm	1 ΄m for LC-0.001 mm 6 ΄m for LC-0.01 mm
	Height Gauge, Vernier Caliper	0-600 mm	10 ΄m for LC-0.01 mm 14 ΄m for LC-0.02 mm 30 ΄m for LC-0.05 mm
	Micrometer	0-600 mm	0.6 ΄m for LC-0.0001mm 1 ΄m for LC-0.001 mm 4 ΄m for LC-0.01 mm
	Gauge Block	1-100 mm	0.08 – 0.17 ΄m
	Feeler Gauge	Up to 1.0 mm	2.5 ΄m
Balance	Weighing Instruments	(0 to 220) g Readability ≤ 0.1 mg	0.1 mg
	Weighing Instruments	220 g to 12 kg Readability ≤ 0.01 g	1.2 g
	Weighing Instruments	(100 to 500) kg Readability ≤ 5 g	30 mg - 5 g
Pressure	Gas medium	1.5 – 40 kPa	0.1 kPa
	Liquid medium	0.1 – 100 MPa	2 kPa
		0.5 – 4 Mpa	7 kPa
		2 – 25 MPa	25 kPa
		5 - 60 Mpa	50 kPa
		10 - 100 Mpa	65 kPa
Time and Frequency	Time difference meter	100 – 100000 s	1 s

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

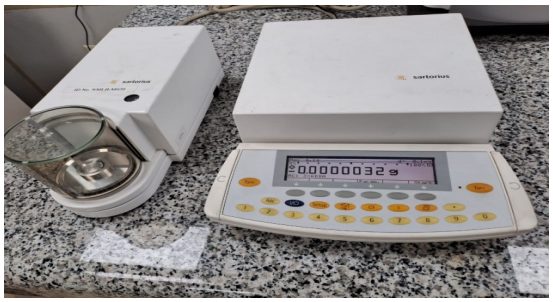
* Temperature installations include fridges, freezers, autoclaves, incubators, ovens and liquid baths (calibrations at customer's premises).

a) Mass Measurement Laboratory:

The principal role of the Physical Metrology Department is to promote world-wide compatibility in mass measurements by providing calibrations traceable to the kilogram. Weighing is a process in which the physical quantity "mass" is measured as a multiple or a fraction of the unit known as the "kilogram". As for every measurement process, weighing must meet three prerequisites: the unit of measure must be defined by appropriate agreement, a measuring procedure developed, and a measuring instrument has to be available.

Reference Mass Standard

NML-BSTI Mass Lab has capabilities conventional mass measurements in air. It can offer calibration services only at laboratory. It has mass standards ranging from 1 mg to 10 kg E1 class which also acts as the mass reference standards for mass lab. It also has several mass comparators.



Mass Comparator

Calibration of conventional mass (E2 Class) capabilities are accredited by Bangladesh Accreditation Board (BAB). NML-BSTI Mass Lab is now maintaining Traceability to Mass SI unit through National Metrology Laboratory of India (NPLI)/ National Institute of Metrology, Thailand (NIMT).

NML-BSTI Mass lab provides calibration services for Weights E2 Class to M Class.

Balance (Weighing Scale) Laboratory:

A weighing scale, also known as a weight scale or simply a scale is a device use to measure the weight or mass of an object or substances. Weighing scales are widely used in commerce, as many products are sold and packaged by mass. Scales can be calibrated to read in units of mass such as kilograms or in units of force such as newtons.

Class E2

NML-BSTI Weighing Balance Lab has capabilities across Ordinary, Medium, Precision and Analytical Balance. It can offer onsite calibration services. It has three classes of working standards (Class E2, F1 and F2).

Class F1

To further strengthening the lab, a new standard (class E1) is also in plan for procurement.

Class E1

This Lab is accredited by Bangladesh Accreditation Board (BAB). The Lab is now maintaining Traceability to mass SI unit through Mass Measurement Laboratory, NML-BSTI.

NML-BSTI Balance lab provides calibration services up to 500 kg including Analytical Balances and any other Electronic Balances.

b) Length & Dimension Measurement Laboratory

Length measurement has been an indispensable part of human life since ancient era till present days. The Length and Dimension measurement laboratory is maintaining K-Grade set of Gauge block as national standard for length. National standards of Length and Dimension measurement laboratory are traceable to NPL (National Physical Laboratory of India). In the subdivision, the dimensional metrology traceability chain is maintained at national level through various state-of-the-art facilities such as Universal Length Measuring Machine, Dial Gauge Calibrator, Gauge Block Comparator, Measuring Tape Calibrator, Caliper Checker and Gauge Block etc. providing apex level calibration services in dimensional metrology. We cater leading automobile industries, manufacturing industries, academic institution, defense sectors, various Govt. laboratories, calibration industries contributing significantly towards socio-economic growth of the nation. We continuously pilot and participate in different international intercomparison in order to establish our equivalence in international system of measurements. Length & Dimension Measurement Laboratory capabilities are accredited by Bangladesh Accreditation Board (BAB).

Dial Gauge Calibrator Gauge Block

Calibration Facilities:

Gauge blocks 0.5 mm to 100 mm, Ring Gauges, Plug gauges, setting gauges or Setting rods, Dial gauges, Inside micrometers, External micrometers, Depth gauges, Feeler gauges, Slide calipers/Vernier calipers, Steel/Fiber tape, Steel scale, Reference Standard Meter Bar, Length Bar etc.

Future Plan:

For strengthening the lab, several new standard equipment such as liner displacement measuring laser interferometer, coordinate measuring machine, roundness measuring machine, flatness measuring machine and gauge block Primary Standard is in-line for procurement.

c) Temperature Measurement Laboratory

The degree or intensity of heat present in a substance or object, especially as expressed according to a comparative scale and shown by a thermometer or perceived by touch is termed as Temperature. Kelvin is the SI unit of Temperature. Other commonly used Temperature units are ^{0}C and ^{0}F.

NML-BSTI Temerature Lab has capabilities across Liquid in Glass Thermometer (Glass Thermometer) and Direct Reading Thermometer's (Digital Thermometer) temperature measurements. It can offer calibration services both onsite and at laboratories making this a versatile lab. It has a Primary Standard Triple Point of Water. It also has several Standard Platinum Resistance Thermometer (SPRT) ranging from -200^{0}C to 660^{0}C which also acts as the reference standards for this lab and also has several Platinum Resistance Thermometer.

Liquid in Glass Thermometer (Glass Thermometer) and Direct Reading Thermometer (Digital Thermometer) are accredited by Bangladesh Accreditation Board (BAB). NML-BSTI Temperature Lab is now maintaining Traceability to Temperature SI unit through National Institute of Metrology, Thailand (NIMT).

NML-BSTI Temperature lab provides calibration services for Glass Thermometers, Digital thermometers, Temperature Gauges, PRTs, Liquid Baths and Analogue Hygrometers etc.

d) Volume, Viscosity and Density Measurement Laboratory:

Volume is the measure of the 3-dimensional space occupied by matter, or enclosed by a surface, measured in cubic units. On other way, the space that a substance (solid, liquid and gas) or shape occupies or contains is called volume.

i.e. Volume = Length x width x height

Another form: i.e. Volume = Mass/Density

Therefore, Volume of a solid is determined either by dimensional measurements or by hydrostatic weighing. It is a derived unit. The unit of volume shall be the millilitre (ml), which is equivalent to one cubic centimetre (cm3). From Volume, Viscosity and Density Measurement Laboratory of NML-BSTI services are provided to calibrate Volumetric flask, Conical flask, Measuring cylinder, Beaker, Pipette, Micropipette, Burette and Pycnometer. This lab is accredited from year 2013. In this lab different balances are used as standards:

Description	Manufacturer	Range	Readability
Electronic balance	Sartorius	400 g	0.0001 g
Electronic balance	Sartorius	5 Kg	0.001 g
Electronic balance	Sartorius	600 g	0.01 mg
Electronic balance	Sartorius	220 g	0.01 mg

Volume measurement is an important step in most industrial and analytical measurement operations. Volume instruments are used in many fields like chemistry, health, biology and pharmacy. The major stakeholders for this lab are:

1. BSTI Metrology Wing (Legal Metrology part) & BSTI Chemical Testing Wing
2. Different Calibration Labs
3. Testing Labs
4. Pharmaceuticals
5. Fisheries Department
6. Color Industries
7. Etc.

Temperature Conversion Formula Table:

Unit	To Celsius	To Fahrenheit	To Kelvin
Celsius(c)	C(0)	C(9/5)+32	C+273.15
Fahrenheit (F)	(F-32)×5/9	F	(F-32) ×5/9+273.15
Kelvin (K)	K-273.15	(K-273.15) ×9/5+32	K

e) Electrical, Time & FrequencyMeasurement Laboratory:

Electrical Measurement Laboratory:

The field of Electrical Metrology is crucial for various applications in industry, research, commerce and everyday life. The Electrical Measurement Laboratory is an important and sophisticated laboratory of NML-BSTI. This laboratory has major responsibilities in providing calibration services for standards and equipment related to electrical properties. Electrical metrology deals with a wide range of electrical quantities including phenomena such as: Voltage (AC/DC), Current (AC/DC), Resistance, Capacitance, Electrical Power etc. are the main measuring entities of Electrical Metrology Laboratory.

Electrical Parameter	Symbol	Unit
Voltage	V	Volt (V)
Current	I	Ampere (A)
Resistance	R	Ohm (Ω)
Capacitance	C	Farad (F)
Inductance	L	Henry (H)
Frequency	f	Hertz (Hz)
Electrical Power	P	Watt (W)
Electrical Energy	E	Joule or watt second

This laboratory relies on the International System of Units (SI) to ensure consistency and uniformity in measurements worldwide. The calibration services cover these measuring instruments:

- Voltmeter
- Ammeter
- Digital Multimeter (up to $7^{1/2}$ digit)
- Process Calibrator
- Electrical Power Source
- Watt Meter
- Current Clamps and Clamp Meter
- Data Acquisition System
- Capacitor Decode Box etc.

Electrical Measurement Laboratory has Multi Product Calibrator, $8^{1/2}$ Digit Multimeter, Coil/50 Turns, Reference Divider, Standard Resistor (10 kΩ, 1Ω) etc.

Accurate electrical measurements are essential for wide range of application, including:

- Ensuring safety in electrical systems and equipment.
- Manufacturing and quality control process.
- Power generation, transmission and distribution of electricity.
- Telecommunication and data network.
- Research and development in electrical engineering and science.
- International trade and standardization.

Time & Frequency Laboratory:

The SI unit of time is second (s).

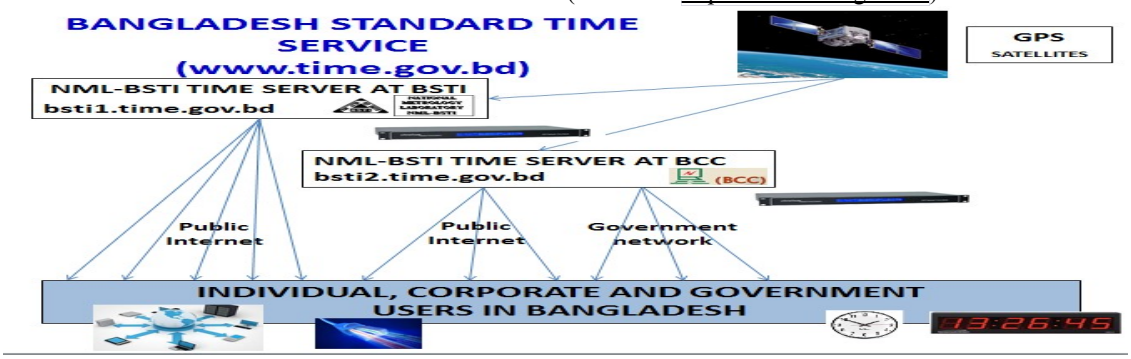
In the past, time was determined based on the Earth's rotation on its axis, and it was defined that the Earth completes one full rotation on its axis every 86,400 parts, with one part being equal to one second. However, scientists of the 20th and 21st centuries discovered that the Earth's rotation on its axis is not constant, leading to variations in its rotational speed.

As a result, since 1967, the following definition of a second has been used:

"The second is the duration of 9 192 631 770 periods of the radiation corresponding to the transition between the two hyperfine levels of the ground state of the caesium 133 atom."

This new definition is based on atomic vibrations, providing a more accurate and stable measure of time compared to the Earth's rotational period, which can be affected by various factors like tidal forces and other geophysical phenomena.

The National Metrology Laboratory, Bangladesh (NML-BSTI) is currently responsible for maintaining and observing Bangladesh Standard Time (BST). Geographically, Bangladesh is located in the UTC+6 (Coordinated Universal Time) time zone, which means it is six hours ahead of the UTC time zone. BST is the national standard time adopted throughout the country (Web link: http://www.time.gov.bd/).



6) Force and Pressure Laboratory:

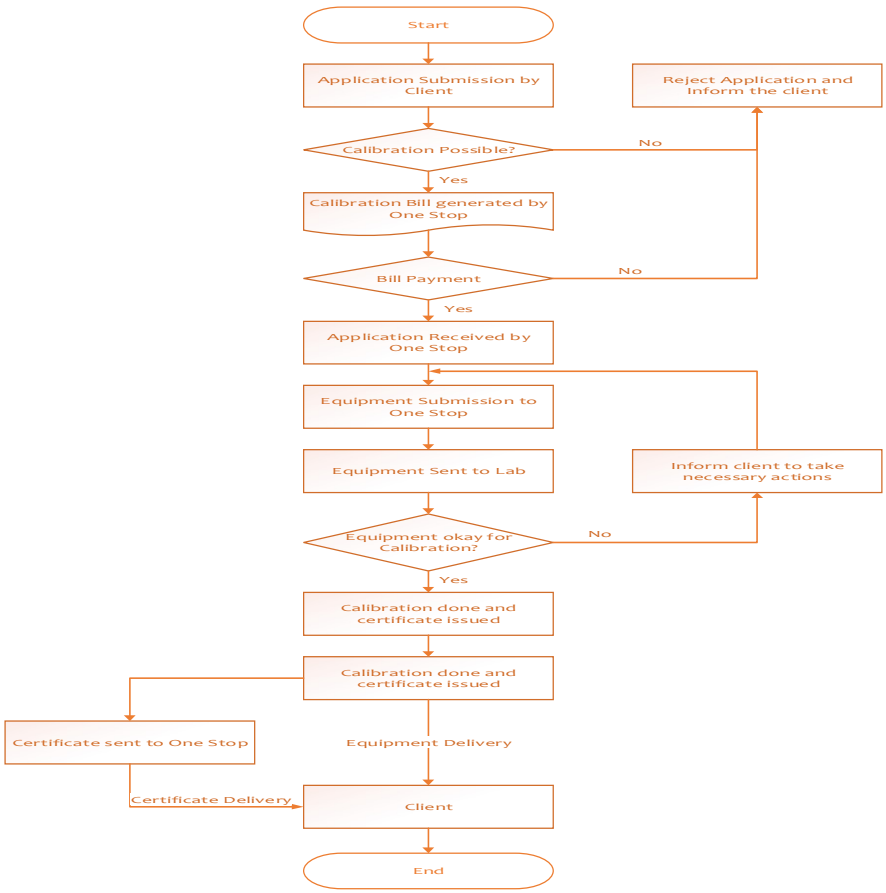
Pressure is an expression of force exerted on a surface per unit area. The Pascal (symbol: **Pa**) is the SI derived unit of pressure, equivalent to one newton per meter squared (N/m^2 or $N \cdot m^{-2}$). Other commonly used pressure units for stating the pressure level are psi (pounds per square inch), torr and bar. Use of pressure units have regional and applicational preference.

Unit conversion	Pa	bar	psi	torr	atm
1 Pa =	1	1×10^{-5}	1.45038×10^{-4}	7.50062×10^{-3}	9.86923×10^{-6}
1 bar =	100,000	1	14.5038	750.062	0.986923
1 psi =	6,894.76	6.89476×10^{-2}	1	51.7149	6.80460×10^{-2}
1 torr =	133.322	1.33322×10^{-3}	1.933768×10^{-2}	1	1.31579×10^{-3}
1 atm (standard) =	1013.25	1.01325	14.6959	760.000	1

NML-BSTI Pressure Lab has capabilities across hydraulic, pneumatic and vacuum pressure measurements. It can offer calibration services both onsite and at laboratories making this a versatile lab. It has hydraulic pressure balances ranging from 1 to 1200 bar which also acts as the hydraulic reference standards for pressure lab. It also has several pressure comparators and reference pressure gauges.

To further strengthening the lab, several new standard equipment such as Barometer Calibrator, Non-invasive blood pressure simulator, low pressure calibrator, onsite pressure calibrator has been procured. Several new standard equipment is also in-line for procurement. Hydraulic and pneumatic gauge pressure capabilities are accredited by Bangladesh Accreditation Board (BAB). NML-BSTI Pressure Lab is now maintaining Traceability to Pressure SI unit through National Institute of Metrology, Thailand (NIMT). NML-BSTI Pressure lab provides calibration services for digital and analogue pressure gauges, barometers, digital and analogue blood pressure measuring devices, vacuum gauges, differential pressure gauges, etc.

Process Flow Chart of NML-BSTI Calibration Service



2. Legal metrology

Legal Metrology is another part of BSTI Metrology Wing. Its main responsibilities are providing verification and calibration services for weights and measuresures used in transaction of trade and commerce. These activities are carried out under the laws of Weights and Measures Law, 2018 and The Standards of Weights and Measures Rules 1982 and Packaged Commodities Rules, 2021. To maintain the accuracy of weighing and measuring instruments used in trade and commerce BSTI Metrology Wing Conduct regular mobile courts and special surveillance operations for customer rights.

Activities of LegalMetrology

i) Maintenance of standards of weights and measures with international traceability.
ii) Verification and calibration of weights and measures and measuring instruments used in commercial transactions.
iii) Implementation of Packaged Commodities rules to all packaged products throughout the country.
iv) Issuance of registration certificate to importer or exporter for metric weighing and measuring instruments.
v) Issuance of registration certificate for LPG, LNG bottling, Treminal, Plant, Petrol Pump, CNG filling or LPG filling stations and plant related activities.
vi) Issuance of registration certificate of manufacturer, repair and supplier of metric weighing and measuring instruments.
vii) Implementation of Metric System (SI– International System of Units) Weights and measures throughout the country.
viii) To conduct regular mobile courts and special surveillance operations for maintaining the accuracy of weighing and measuring instruments used in trade and commerce. This will ensure the safety and interest of the consumers.

Achievement of Legal Metrology Activities, 2022-2023:

Sl.	Achievement	
1	**Mobile courts**	
	Number of mobile courts conducted (nos)	1052
	Cases in mobile courts (nos)	1806
	Penalty (Million Taka)	4,51,86,100
2	**Squad/Surveillance Team**	-
	Squad/special teams of BSTI operated in markets & Industry (nos)	849
	Cases in courts (nos)	14
3	**Surveillance in petrol pumps** (nos)	499
	Cases in courts (nos)	10
4	**Surveillance in Cloths**(nos)	81
	Cases in courts (nos)	-
5	**Surveillance in Jewellery**(nos)	107
	Cases in courts (nos)	3
6	**Registration license of Package Commodities for using "b" logo (mark)**(nos)	3733
7	**License of different organizations for newly establishment LPG Bottling plant** (nos)	16
8	**Verification of Weights and Measuring instruments used in different market and trades**(nos)	2,58,150
9	**Training on Metrology**(nos)	2

Membership of Regional and International Metrology Organization:

- International Bureau of Weights and Measures (BIPM).
- International Organization of Legal Metrology (OIML).
- Member of the Asia Pacific Metrology Program (APMP).
- Signatory of the CIPM Mutual Recognition Arrangement (MRA) among National Metrology Institute (NMI).

5. Certification Marks (CM) Wing:

The Certification Marks Wing is responsible to ensure the quality of products as per Bangladesh Standards (BDS). For this purpose CM wing issuing CM (Certification Marks) License for food and nonfood products, Import Clearance Certificate of Imported products and Halal Certificate under BSTI Act, 2018 Import Policy Order and BSTI Regulation, 2022 of the Government. As the part of those activities BSTI conducts factory inspection, Collection the sample of products. Its functions also include renewal, suspension and cancellation of the issued license and certificates in case of violation of condition of license.

Accordingly as the post certification activities CM wing operates different types of monitoring activities like as Factory Surveillance, Market surveillance, Mobile Court etc.

5.1 Procedure of Certification Marks License

a. Application process:

Any producer/packer/contract manufacturer intending to use of Standard Mark of BSTI in relation to any product or article produced or packed by them in their premises, shall apply for Mandatory (239) or Voluntary individual products to the Institution through online/manually for the CM License in the prescribed form including required documents with application fee. Form is available on www.bsti.gov.bd

b. Application Review and Inspection:

After receiving the application, the responsible Field Officer (CM) reviews the application and conducts the factory inspection taking approval from the authority. As per the relevant product standard, during inspection factory, Field Officer verifies and reports on the following information in prescribe form:

a. General information;
b. Environment of Production premises (Layout, Design, Hygiene, Safety etc.)
c. About raw materials;
d. Manufacturing process;
e. Packing and marking;
f. Internal Monitoring, inspection and reporting procedure;
g. Laboratories with testing facilities available as per Bangladesh Standard;
h. Sampling methods;
i. Storage facilities of raw materials and finish products.
j. Competency and Training of the personnel engaged in production & QC(Quality Control);
k. About GMP & GHP.
l. Safety (in applicable products)

The Field Officer submits the inspection report with evidence collected from the factory during inspection.

c. Collection of sample:

As per BDS if everything is satisfied by the Field Officer (CM) with the information and evidence, he collects two sets of samples on random basis which are jointly signed and sealed by the Field Officer and the producer/representative of the factory. Both the samples are kept in the custody of the applicant who is advised to submit one set of the sample with testing fee to the BSTI One Stop Service Center. The other is kept with them as a reference sample.

d. Approval of License:

After the completion of the above mentioned formalities if the test parameters are found in conformity with the relevant BDS and inspection report is satisfactory, approval of issuing license is taken in favour of that product/article. A license is approved for a period of three years, which is renewable.

e. Bill Issuing:

Upon approval of license, a licensee has to pay fees in favor of BSTI, which is known as license fee. Mentionable, the breakup of the CM fees are as follows:

(i) Application fee
(ii) Testing fee
(iii) License fee
(iv) 15% VAT applicable on total fee.

f. Issue of License:

In case of Voluntary and Accredited products, application along with factory inspection, test report, physical sample of products are placed at the Products Certification Committee. If Products Certification Committee recommends, license is issued for the products for three years. In general cases, license is issued subject to fulfillment of the above requirements. License is renewed for three years subject to fulfillment of above mention procedures.

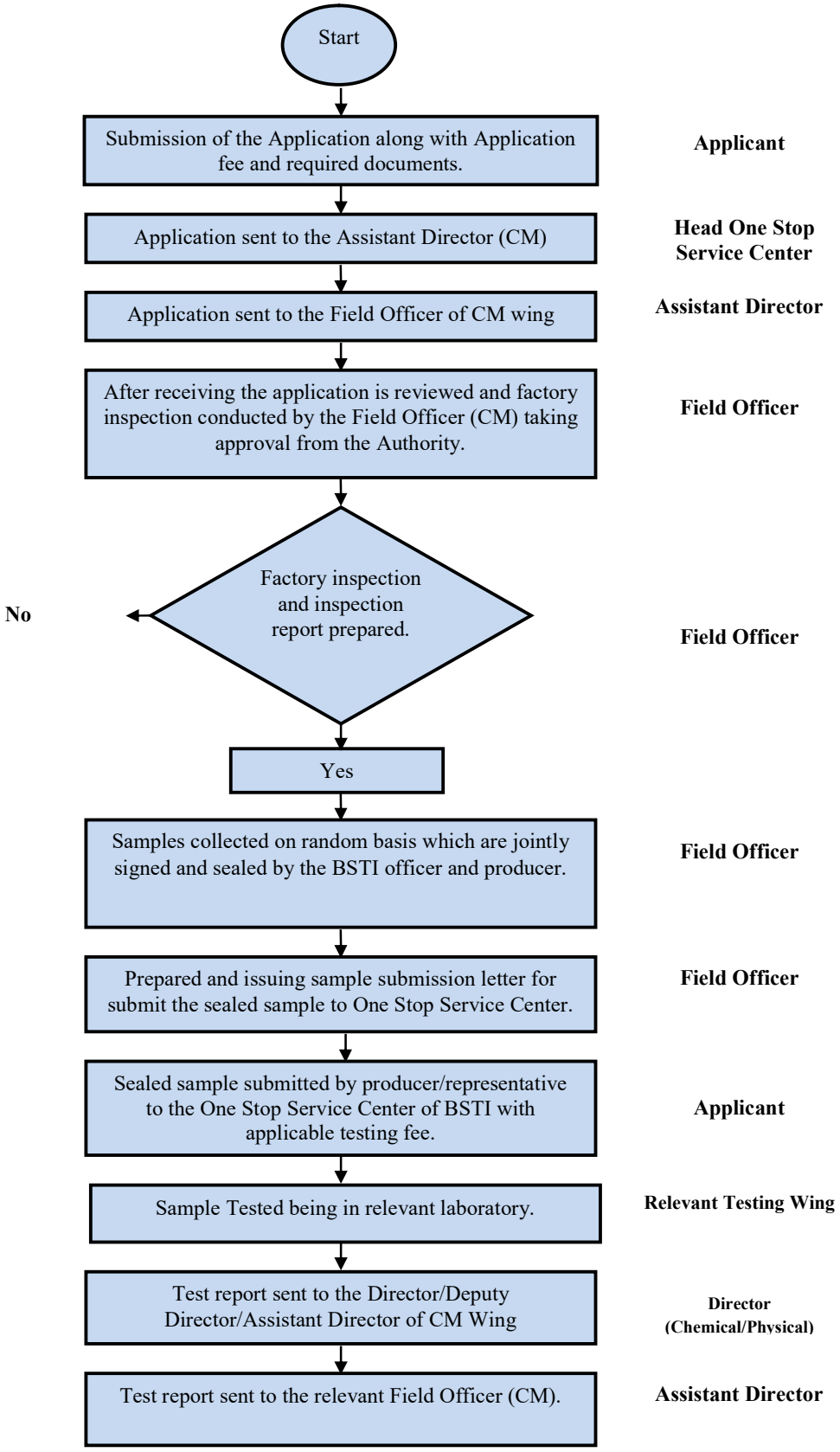
g. Cancellation of License:

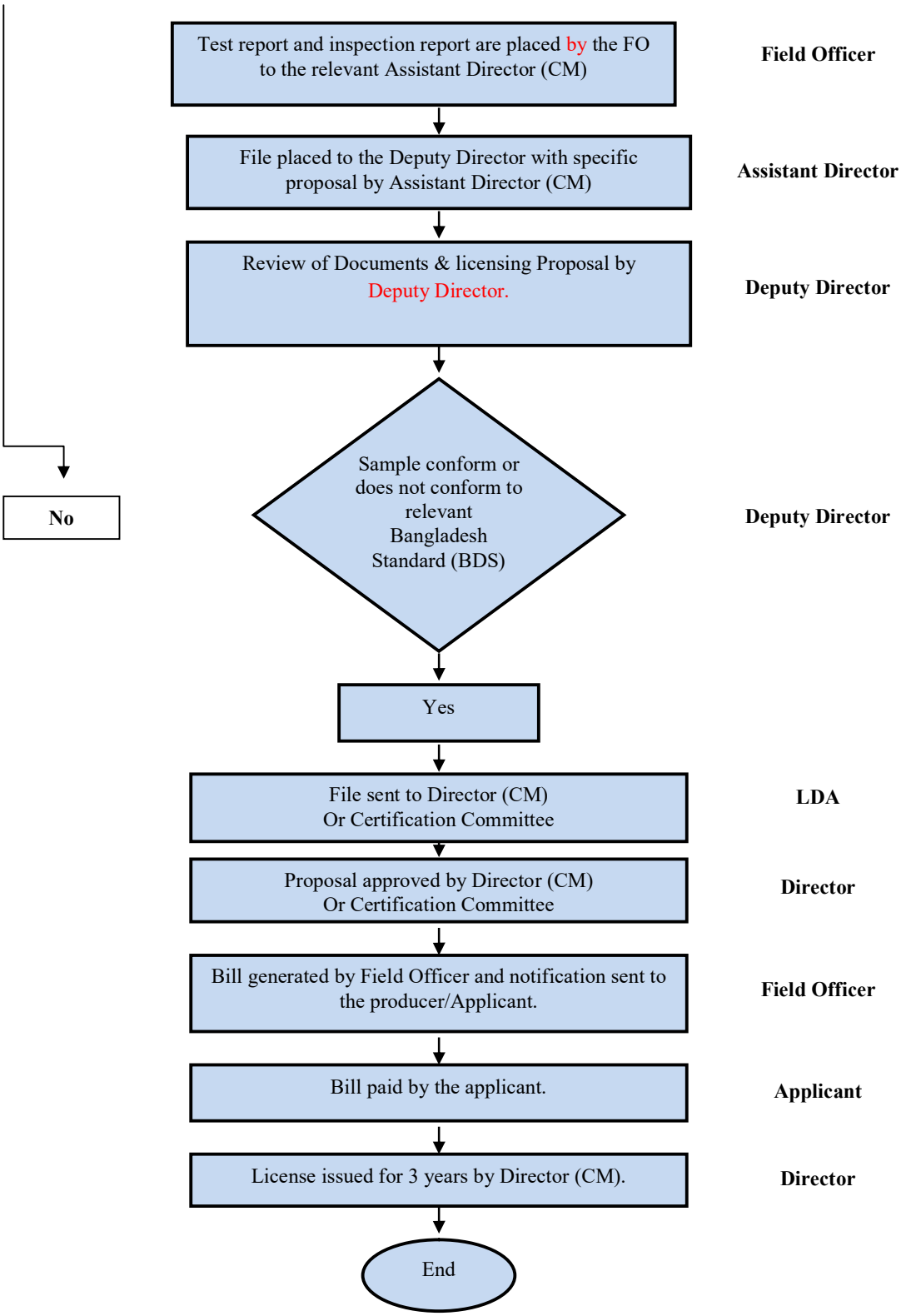
A license can be cancelled, suspended at any time if it is found that the licensee has violated any of the conditions specified in the license or any provision of BSTI Act. A suspended license can be revoked if the producer upgrades the products quality and complies others requirements.

h. Testing of sample:

The producer or his representative submits the sealed samples to One Stop Service Center of BSTI office or any BSTI authorized laboratory. The producer has to pay applicable testing fee.

Process Flow chart of approval of CM license




Test report and inspection report are placed by the FO to the relevant Assistant Director (CM)
Field Officer
File placed to the Deputy Director with specific proposal by Assistant Director (CM)
Assistant Director
Review of Documents & licensing Proposal by Deputy Director.
Deputy Director
Sample conform or does not conform to relevant Bangladesh Standard (BDS)
Deputy Director
No
Yes
File sent to Director (CM) Or Certification Committee
LDA
Proposal approved by Director (CM) Or Certification Committee
Director
Bill generated by Field Officer and notification sent to the producer/Applicant.
Field Officer
Bill paid by the applicant.
Applicant
License issued for 3 years by Director (CM).
Director
End

5.2 Procedure of Import Clearance for Imported products

BSTI CM Wing issues the Import clearance for 79 products (Food and Nonfood) which are mandate by the Import Policy Order 2021-2024. After arrival of the imported products on Bangladesh customs port, the Importer has to take the BSTI clearance for the said products prior to Custom clearance.

a. Application process

In order to take the Import clearance Importer has to apply in the prescribed application form with the updated Trade license, Income Tax Certificate, IRC, L/C Copy, Invoice copy, Bill of Entry, Bill of Lading, Airway Bill, Country of Origin, Radioactivity Certificate, Health certificate (for Food) of the relevant consignment.

b. Sample collection

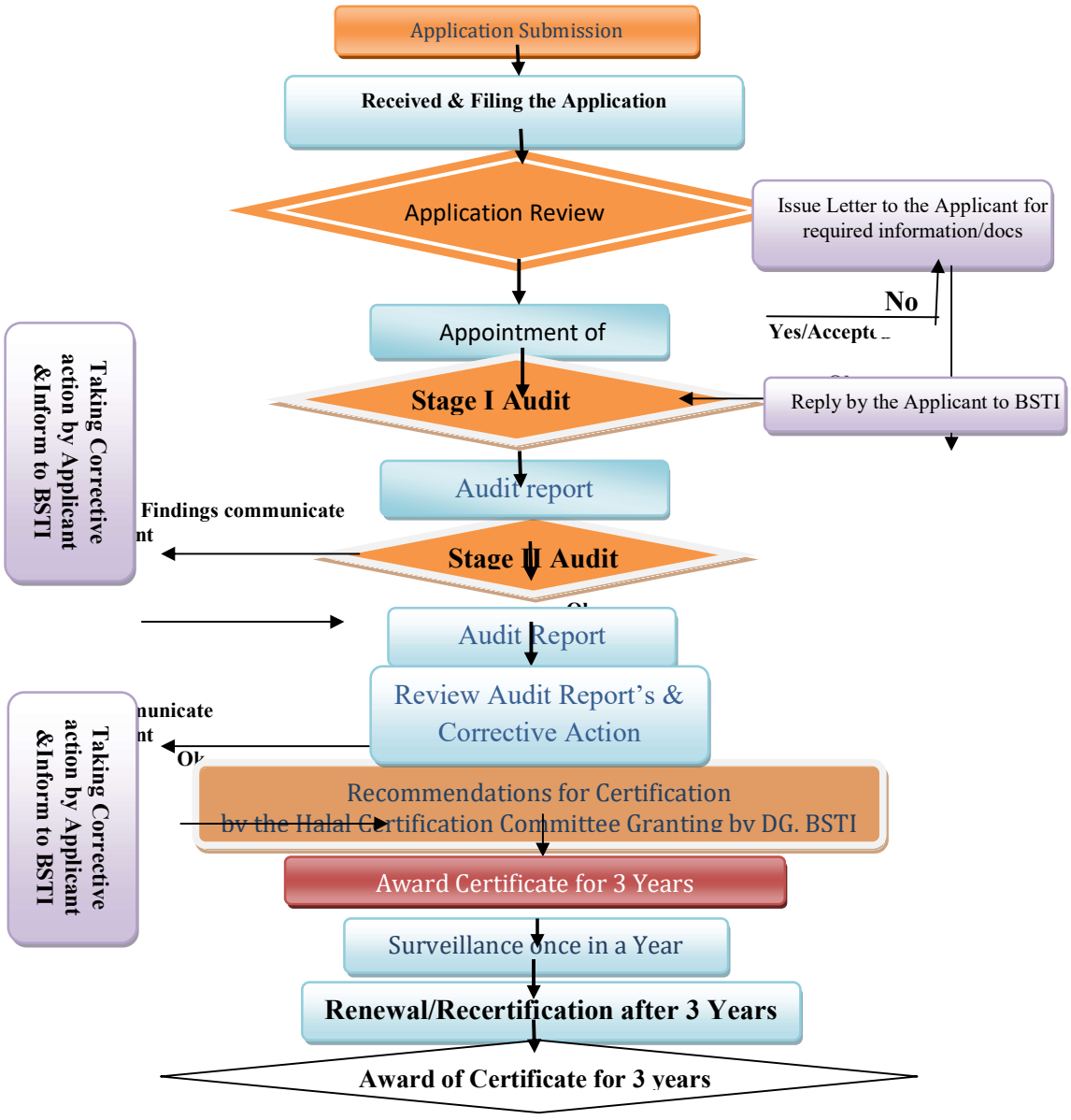
After receiving the application responsible Field Officer (CM) reviews the submitted documents and visits the custom port. Verifying all examination report he takes the sample with presence of custom officer which are jointly signed and sealed by the Field Officer, Custom Officer and the Importer/representative of the importer. Both the samples are kept in the custody of the applicant who is advised to submit one set of the sample to the BSTI One Stop Service Center. The other is kept with them as a reference sample.

c. Testing of sample: The importer or his representative submits the sealed samples to One Stop Service Center of BSTI office or any BSTI authorized laboratory. The importer has to pay applicable testing fee.

5.3 Procedure of Halal Certification

BSTI has got the mandate to issue Halal Certificate by the SRO No 297/2021, Dated 08 September, 2021 of the Ministry of Industries in order to expedite exports of the country. The flow chart of Halal Certification process is as follows:

Process flow chart of Halal Certification



5.4 Accreditation of Product Certification Scheme (PCS)

BSTI CM Wing operates the Product Certification Scheme with following type 5 of International Standard ISO/IEC 17065:2012 for some specific products. Since 2012 BSTI achieved the Initial Accreditation with following the International standard from NABCB, India (National Accreditation Board for Certification Bodies, India) for 14 food and non food products. The NABCB Accreditation is continued upto 2018. At present BSTI Product Certification Accreditation is under process in Local Accreditation Body Bangladesh Accreditation Board (BAB), under the Ministry of Inustries.

Evaluation Plan of Product Certification Accreditation Scheme(Based on ISO/IEC17065:2012)

Certification Schedule	Category		Sub Category		Scope (Products /Process)	Evaluation Criteria	
						Technical Standards	Others Applicable Document
Type-5 Based on ISO/IEC 17067:2013	A	Food Manufacturing	A-I	Processing of Perishable Animal Products	1. Flavored Milk 2. Low Fat Milk	1. BDS 1471:2012 2. BDS 1866:2013	STI for each product (Based on Standard)
			A-II	Processing of Perishable Plant Products	1. Fruit Drinks 2. Chutney	1. BDS 1581:2015 2. BDS 521:2011 (Amendemnt-1, 2018)	
			A-III	Processing of Ambient Stable Products	1. Wafer Biscuits	1. BDS 1001:2010	

5.5 CM licensing on digital platform (e-Application System)

To build the SMART Bangladesh, BSTI developed digital system for its all kind of services. Accordingly to reduce TCV (Time, Cost, and Visit) under the SPS commitment of the Government, BSTI CM licensing system is now on the digital platform. Now the client can apply through online e-Application system software. By using the software, clients apply from their home and get the update notification about the status of the application. Requisite bill for different service step can be paid through online banking. After payment of all bill and fee's he can receive the License, Import Clearance and Halal Certificate (with QR Code) from their home.

5.6 Consumer Protection (Surveillance, Mobile Court, Judicial case)

In order to ensure consumer rights and also to ensure BDS for the relevant products, BSTI conducts Surveillance and Mobile Court as the part of monitoring activities of post licensing period with taking the following measures regularly:

5.6.1 Surveillance

(a) Surprise inspections of the licensee's factory and open market are carried out periodically by the surveillance team of the BSTI. BSTI team collects random samples from factory and open market and tested in BSTI Laboratory.

(b) If the test reports of the collected samples don't comply with the relevant BDS, the show cause notice is issued to the producer as per the procedure and BSTI Act. If the producer fails to reply to show cause notice or the reply of the notice is found not satisfactory, the license is cancelled and necessary actions are taken.

(c) BSTI surveillance team visits the new manufacturer plant which are not taken the CM license and aware to take the CM License by providing the notice.

(d) Regarding any kind of complaints against licensed products or services are taken by BSTI mail/hotline/complain box, BSTI surveillance team goes to relevant factory/market to verify the issues and take the necessary action as per the laws and procedure.

5.6.2 Legal Action (Mobile Court, Judiciary case)

(a) Misuse of the Standard Mark by the unscrupulous manufacturer or dealer is punishable under the provisions of the Bangladesh Standards and Testing Institution Act, 2018, which provides penalty and imprisonment to the offending person. In order to prevent the offense and to control the product standard BSTI operating the Mobile Court throught the country in daily with BSTI Magistrates as per the monthly schedule.

(b) Apart from that CM Wing officer keeping a great role with taking the part in the Mobile court of any other legal dept. of the Government (i.e. RAB, Metro politon, DC office etc.

(c) Sometimes BSTI files the Judiciary case against the illegal and counterfeit manufacturers who doesn't response after noticing repeatedly to take the CM license and seal the factory as per the BSTI Act.

(d) Any complaints against licensed products or services are taken by BSTI mail/hotline/ complain box, CM wing officers take the legal necessary action immediately.

5.7 Special Activities:

(a) During the month of Ramadan, BSTI undertakes special activities to ensure the supply of quality products among the consumers. In the year of 2022-2023 during the month of Ramadan 826 samples were collected from the open market and tested in the BSTI lab, out of 826 samples, 14 samples were found substandard. As per BSTI Act, show cause notice issued, to the defaulters and prohibited sales & distribution of the said products.

(b) Special teams formed by the BSTI officials, collected random samples of diesel, petrol & octane from different petrol pumps and depots in the year 2022-2023. Some of the samples were not found conformance with the relevant Bangladesh Standards (BDS) and due actions was taken against them.

5.8 Consumer Awareness Building Activities

a. **QR Code generate**-To ensures consumer awareness about product CM license BSTI started to generate the QR code for the license as well as the product brand/variants. By scanning the QR Code, consumer can ensure that the product has the valid BSTI license of that product. In such way he/she can avoid the counterfeit and substandard product.

b. **Hotline, OSS center -**CM Wing officials serving in the hotline and One stop service (OSS) center providing all kind of guidance or suggestion in respect of public or Customers queries.

c. **Media publication:** Any type of BSTI publishes warning notices to the print media in order to ensure awareness among the stakeholders about production of counterfeit, substandard, unauthorized product, misuse of BSTI logo etc. Sometimes, a short Television Commercial (TVC) is prepared by BSTI for awareness building of the above mentioned purposes and telecasted in government and private electronic media. All reports including warning notices are uploaded in BSTI website regularly.

d. **Public Hearing:** BSTI arranges public hearing regularly to share views about its services and activities and seeks suggestion from the stakeholder such as business bodies, manufacturing companies, importers and consumer association etc. BSTI takes necessary action based on the recommendation.

5.9 Statistics of CM Wing Activities.

5.9.1 Activities of CM (Certification Marks) Wing

Sl.	Activities	2021-2022	2022-2023
1	New license issued	3355	3425
2	License renewed	3993	4109
3	Refused application for license	791	553
4	No. of mobile courts and surveillance teams operated	2350	2506
5	Cases instituted in mobile Courts and surveillance teams	1765	1405
6	Cases disposed in mobile mobile Courts and surveillance teams	1692	1341
7	Fine/Punishment (Mobile Court) (in lac)	1090.03	627.3721
8	Number of factories sealed for non-compliance	19	45
9	Penalty (Imprisonment) (person)	18	17

5.9.2 Halal Certification Activities

With the approval of the Halal Certification Committee, BSTI has awarded Halal Certificates to the following different industries for their products. Total 20 Halal Certificates have been awarded to different industries. Many applications for Halal Certificates are under process for approval.

SL No	Name of the Companies	Product Name	Brand	Certificate No
1.	Danish Foods Ltd., A/95, Shimrail, Siddhirgonj, Narayangonj, Bangladesh	Biscuits (25 varients)	Danish	dhk_hc_0000000000010
2.		Turmeric Powder	Danish	dhk_hc_0000000000011
3.		Chilies Powder	Danish	dhk_hc_0000000000012
4.		Coriander Powder	Danish	dhk_hc_0000000000013
5.		Cumin Powder	Danish	dhk_hc_0000000000014
6.		Curry Powder (Beef Curry Masla)	Danish	dhk_hc_0000000000015
7.		Curry Powder (Chicken Curry Masla)	Danish	dhk_hc_0000000000016
8.		Biriyani Masla	Danish	dhk_hc_0000000000017
9.		Fruit Drinks (Mango); PET Bottle, Tetrapack	Danish	dhk_hc_0000000000018
10.	Cocola Food Products Ltd., 942, Mouchak, Kaliakair, Gazipur.	Noodles	Cocola	dhk_hc_0000000000019
11.	Do	Instant Noodles	Cocola	dhk_hc_0000000000020
12.	Bengal Meat Processing Industries Ltd., Korial, Kashinathpur, Santhia, Pabna	Beef	Bengal Meat	dhk_hc_0000000000021
13.	Do	Mutton	Bengal Meat	dhk_hc_0000000000022
14.	Do	Chicken	Bengal Meat	dhk_hc_0000000000023
15.	Do	Fish	Bengal Meat	dhk_hc_0000000000024
16.	Do	Sausage	Bengal Meat	dhk_hc_0000000000025
17.	Do	Meatball	Bengal Meat	dhk_hc_0000000000026
18.	Do	Nuggets	Bengal Meat	dhk_hc_0000000000027
19.	Do	Lollipop	Bengal Meat	dhk_hc_0000000000028
20.	Do	Burger	Bengal Meat	dhk_hc_0000000000029
21.	Do	Chicken Cordon Bleu	Bengal Meat	dhk_hc_0000000000030
22.	Do	Chicken Cutlet	Bengal Meat	dhk_hc_0000000000031
23.	Do	Chicken POPs	Bengal Meat	dhk_hc_0000000000032
24.	Do	Chicken Finger	Bengal Meat	dhk_hc_0000000000033
25.	Do	Chicken Drumstick	Bengal Meat	dhk_hc_0000000000034
26.	Do	Crispy Fried Chicken	Bengal Meat	dhk_hc_0000000000035
27.	Do	Kebab	Bengal Meat	dhk_hc_0000000000036
28.	Do	Samosa	Bengal Meat	dhk_hc_0000000000037
29.	Do	Puri	Bengal	dhk_hc_0000000000038

SL No	Name of the Companies	Product Name	Brand	Certificate No
			Meat	
30.	Do	Steak	Bengal Meat	dhk_hc_0000000000039
31.	Do	Singara	Bengal Meat	dhk_hc_0000000000040
32.	Do	Fish Fillet	Bengal Meat	dhk_hc_0000000000041
33.	Do	Haleem (Ready Cooked Meal)	Bengal Meat	dhk_hc_0000000000042
34.	Do	Beef Cooked Meal	Bengal Meat	dhk_hc_0000000000043
35.	Do	Chicken Cooked Meal	Bengal Meat	dhk_hc_0000000000044
36.	Do	Mutton Cooked Meal	Bengal Meat	dhk_hc_0000000000045
37.	Do	Duck Cooked Meal	Bengal Meat	dhk_hc_0000000000046
38.	Do	Cold Cut	Bengal Meat	dhk_hc_0000000000047
39.	Do	Cow Slaughter House	Bengal Meat	dhk_hc_0000000000048
40.	Do	Goat Slaughter House	Bengal Meat	dhk_hc_0000000000049
41.	Do	Chicken and other poultry Slaughter House	Bengal Meat	dhk_hc_0000000000050
42.	Prand Foods Ltd, Ekdana, Natore.	Pickle	Pran	dhk_hc_0000000000051
43.	Do	Kashundi	Pran	dhk_hc_0000000000052
44.	Do	Peanut Bar	Pran	dhk_hc_0000000000053
45.	Do	Sesame Bar	Pran	dhk_hc_0000000000054
46.	Do	Jam-Jelly	Pran	dhk_hc_0000000000055
47.	Do	Honey	Pran	dhk_hc_0000000000056
48.	Do	Edible Jell	Pran	dhk_hc_0000000000057
49.	Do	Toffee	Pran	dhk_hc_0000000000058
50.	Do	Chocolate	Pran	dhk_hc_0000000000059
51.	Do	Flavored Drinks	Pran	dhk_hc_0000000000060
52.	Do	Instant Noodles	Pran	dhk_hc_0000000000061
53.	Do	Noodles	Pran	dhk_hc_0000000000062
54.	Do	Chutney	Pran	dhk_hc_0000000000063
55.	Do	Ketchup	Pran	dhk_hc_0000000000064
56.	Do	Sauce	Pran	dhk_hc_0000000000065
57.	Do	Soya Sauce	Pran	dhk_hc_0000000000066
58.	Do	Mayonnaise	Pran	dhk_hc_0000000000067
59.	Do	Fruit & Vegetable Pulp	Pran	dhk_hc_0000000000068
60.	Renata Limited, Section-7, Mirpur, Dhaka-1216.	Multiple Micronutrient Powder	Pustikona	dhk_hc_0000000000069
61.	Do	Oral Rehydration Salt	Saline-R	dhk_hc_0000000000070

6. Management Systems Certification (MSC) Wing

The Management Systems Certification (MSC) Wing of BSTI, through the Bangladesh Standards and Testing Institution (Management Systems Certification) Regulation-2009 provides third party Systems Certification service against management systems international standards to the organizations without any discrimination to assist the industries and commerce in Bangladesh.

6.1 Introduction of MSC service:

BSTI operates Management Systems Certification service through Management Systems Certification (MSC) Wing against ISO 9001 (Quality Management Systems), ISO 14001 (Environmental Management Systems), ISO 22000 (Food Safety Management System) and HACCP (Hazard Analysis and Critical Control Point) to different Industry, Business and Service Organizations. In Bangladesh there are number of private certification agencies working for issuing systems certification. But BSTI is the only Govt. organization, which has started awarding Management Systems Certification in the country. In conscience of domestic Industry, Business and Service organization achieves ISO certificate at low cost from BSTI other than private and foreign certification organization. Formerly the Management Systems Certification of BSTI had been accredited by Norwegian Accreditation Authority up to 2014. After that the Bangladesh Accreditation Board (BAB) has given Accreditation on Management Systems Certification (MSC) against ISO/IEC 17021 and ISO/TS 22003 standards for 3(three) years in 2015 according to the Norms of International Accreditation Forum (IAF).

Henceforth, the Accreditation Certificate is renewed by BAB in due procedure. Till today, BSTI has awarded the following 107 Management Systems Certificates on ISO 9001 (Quality Management Systems), ISO 14001 (Environmental Management Systems), ISO 22000 (Food Safety Management Systems) to the different industries/Companies. Out of 92 Certificates, 81 are for Quality Management Systems, 08 for Environmental Management Systems and 18 for Food Safety Management Systems. In FY 2022-2023, total 40 following MSC have been awarded to different Indurtries/Companies.

6.2 List of Management Systems Certified Clients

Name of ISO standards and Certificates	Sl. No.	Name of the Indurtries/Companies	Certificate Number
1. ISO 9001:2015 (Quality Management Systems)	01.	AST Beverage Ltd.	C-0002
	02.	Baby Nutrition Ltd.	C-0005
	03.	BD Foods Ltd.	C-0018
	04.	Nita Company Ltd.	C-0024
	05.	A.T. Haque Limited	C-0025
	06.	Alpine Fresh Water Limited	C-0033
	07.	Bumblebee Technologies Bangladesh Ltd.	C-0041
	08.	Amber Board Mills Limited	C-0045
	09.	Allergo Suites	C-0051
	10.	Cemix Chemicals LTD.	C-0055
	11.	Chemito International Ltd.	C-0056
	12.	JMI Hospital Requisite Manufacturing Ltd.	C-0057
	13.	RIGS HERBS,	C-0058
	16.	Dream Mushroom Center	C-0060
	14.	Guardian Network	C-0062
	15.	Integrated Power and Engineering	C-0063
	17	OFS Cables Ltd.	C-0095
	18.	Chowdhury Metal Industries Ltd.	C-0098
	19.	Baral Chemical Company Limited	C-0099
	20.	Universal Medical College & Hospital Ltd.,	C-0100
	21.	Khadija Plastic Industry Ltd.	C-0101
	22.	Emerald Oil Industries Ltd.	C-0102
	23.	Bangladesh Association of Software and Information Services (BASIS)	C-0105
	25.	Eastern Cement Industries Ltd.,	C-0107

Name of ISO standards and Certificates	Sl. No.	Name of the Companies	Certificate no.
2. ISO 14001:2015 (Environmental Management Systems)	01.	RAK Ceramics Bangladesh	C-0013
	02.	Bumblebee Technologies Bangladesh Ltd	C-0041
	03.	OFS Cables Ltd.	C-0096
	04.	JMI Syringes and Medical Devices Ltd.	C-0097

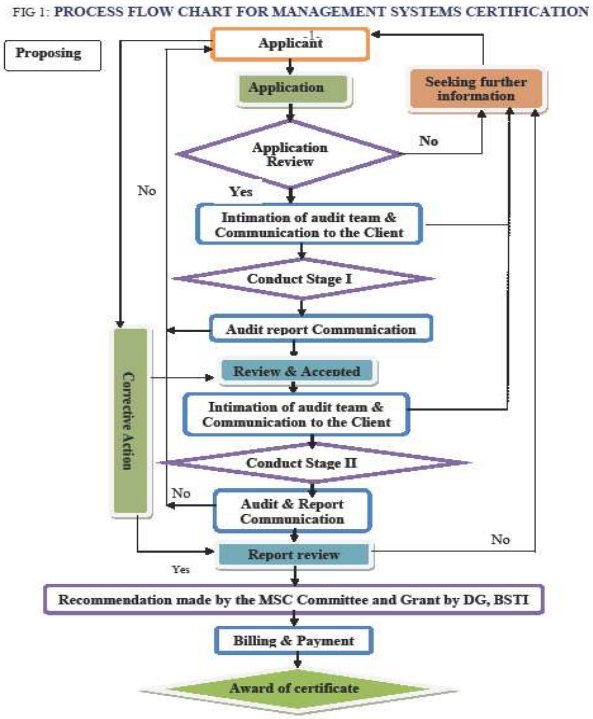
Name of ISO standards and Certificates	Sl. No.	Name of the Companies	Certificate no.
ISO 22000:2018 (Food Safety Management Systems)	01.	AST Beverage Ltd.	C-0001
	02.	Baby Nutrition Ltd.	C-0004
	03.	BD Foods Ltd.	C-0018
	04.	A.T. Haque Limited	C0033
	05.	Deshbandhu Food and Beverage Ltd.	C-0066
	06.	Agrow Fruits and Vegetables Limited	C-0094
	07.	Emerald Oil Industries Ltd.	C-0103
	08.	Imperia Foods	C-0106
HACCP(Hazard Analysis and Critical Points)	01.	Emerald Oil Industries Ltd.	C-0104

6.2 Certification Proposal Sheet:

SL.	Name and Address of the Organization	Type of Audit	Audit Criteria
01.	Emerald Oil Industries Ltd. West Sheripara, Sherpur	Initial Certification	ISO 9001:2015; ISO 22000:2018 and HACCP
02.	Bangladesh Association of Software and Information Services (BASIS),Kawran Bazar, Dhaka	Initial Certification	ISO 9001:2015
03.	Imperia Foods Vakurta, Savar, Dhaka	Initial Certification	ISO 22000:2018
04.	Eastern Cement Industries Ltd., Narayanganj	Initial Certification	ISO 9001:2015
05.	RAK Ceramics Bangladesh	Recertification Audit	ISO1 4001:2015
06.	AST Beverage Ltd. Shiddirganj, Narayanganj	Recertification Audit	ISO 9001:2015 and ISO 22000:2018
07.	Alpine Fresh Water Limited BSCIC I/E, Tongi Gazipur	Recertification Audit	ISO 9001:2015
08.	Baby Nutrition Ltd. Lalmai, Cumilla	Recertification Audit	ISO 9001:2015 and ISO 22000:2018
09.	Guardian Network Banani, Dhaka	Recertification Audit	ISO 9001:2015
10.	Bumblebee Technologies Bangladesh Ltd.,Budda,Dhaka	Recertification Audit	ISO 9001:2015 and ISO 14001:2015
11.	Integrated Power and Engineering Savar,Dhaka	Recertification Audit	ISO 9001:2015
12.	Deshbandhu Food and Beverage Ltd. Palash, Narsingdi	Recertification Audit	ISO 22000:2018
13.	Vidyut Bangladesh Ltd., Narayanganj	Recertification Audit	ISO 9001:2015
14.	Quality Calibration Solution Ltd. ,Dhaka	Recertification Audit	ISO 9001:2015
15.	Building Care Ltd., Savar, Dhaka	Recertification Audit	ISO 9001:2015
16.	**Agrow Fruits and Vegetables Limited** Nachol,Chapainawbganj	Initial Certification	ISO 22000:2018
17.	**OFS Cables Ltd.** Plot-14,Block-2, Bangabondhu Hi-Tech City, Kaliakour,Gazipur.	Initial Certification	ISO 9001:2015
18.	**OFS Cables Ltd.** Plot-14,Block-2, Bangabondhu Hi-Tech City, Kaliakour,Gazipur.	Initial Certification	ISO 14001:2015
19.	**JMI Syringes and Medical Devices.** Rajendropur, Chauddagram,Cumilla	Initial Certification	ISO 14 001:2015
20.	**Chowdhury Metal Industries Ltd.** Mridhabari, Jatrabari,Dhaka.	Initial Certification	ISO 9001:2015
21.	**Baral Chemicals Ltd.** Jahorchanda, Ashulia, Savar.	Initial Certification	ISO 9001:2015
22.	**Universal Medical College & Hospital Ltd.,** 74G/75, Peacock square, New Airport Road Mohakhali, Dhaka-1215	Initial Certification	ISO 9001:2015

SL.	Name and Address of the Organization	Type of Audit	Audit Criteria
23.	**Khadija Plastic Industry Ltd.** 64 Ananda Mohan Avenue, Mymensingh-2200. Factory Address: Char kalibari, Ishwardia, Shambhugonj, Mymensingh.	Initial Certification	ISO 9001:2015
24.	**A.T. Haque Limited** Tongi, Gazipur	Recertification	ISO 22000:2018
25.	**A.T. Haque Limited** Tongi, Gazipur	Recertification	ISO 9001:2015
26.	**Amber Board Mills Limited** Masumabad, Narayangonj	Recertification	ISO 9001:2015
27.	**BD Foods Ltd.** Bhawal Mirzapur, Gazipur Sadar, Gazipur, Bangladesh Gazipur, Dhaka	Recertification	ISO 22000:2018
28.	**Allergo Suites** Plot#65, Block#A, Kalatoli Road, Cox's Bazer.	Recertification	ISO 9001:2015
29.	**Igloo Foods Limited** Chapainawbganj	Recertification	ISO 22000:2018
30.	**Nita Company Ltd.** Changutia ,prembag, Avoynagar, Jessore	Recertification	ISO 9001:2015
31.	**RIGS HERBS,** Rana Nagar, Mirzapur, Gazipur	Recertification	ISO 22000:2018
32.	**Chemito International Ltd.** Kodompur, Abdullapur, South Keranigonj, Dhaka.	Recertification	ISO 9001:2015
33.	**Cemix Chemicals LTD.** House#5, Road#2, Block#B, Aftab Nagar, Dhaka	Recertification	ISO 9001:2015
34.	**Dream Mushroom Centre,** Satayapur, Magura	Recertification	ISO 9001:2015
35.	**JMI Hospital Requisite Mfg. Ltd.** Vitakandi, Gazaria-1510, Munshigonj	Recertification	ISO 9001:2015

6.1 Process Flow Chart for MSC



7. Administration Wing

Administration wing provides logistic supports to different wings of BSTI and its field offices. These include appointment, transfer, promotion, training, store management, project management, legal matters, procurement, budget preparation, maintenance ofequipments, maintain records of income & expenditureand other administrative matters.

7.1 Budget

Three Year Income of BSTI	
Financial Year	**Income (Tk.)**
2020-2021	116,14,24,126.00
2021-2022	137,63,80,944.00
2022-2023	173,61,86,722.00

Three Year Expenditure of BSTI	
Financial Year	**Expenditure (Tk.)**
2020-2021	193,15,75,000.00
2021-2022	118,21,05,898.00
2022-2023	124,43,35,761.00

7.2 Training and Visit:

Officials of the BSTI participated in different meetings, seminars and workshops physically and virtuallyat home and abroad arranged by the different organizations. List of the meetings, seminars and workshops and participants are given below:

Overseas Training:

SL.	Name of the Training Program	Name & Designation of the Officers	Organizer	Duration		Source of Expenditure
				From	To	
1.	26th session of Cocdex Committee on Residues of Veterinary Drugs in Foods (CCRVDF)	Mr. Md. Abdus Sattar Director General (Grade-1) BSTI, Dhaka	CCRVDF	13th February, 2023	17th February, 2023	FAO
2.	ISO Forum for Chief Executive Officers of Members in the Asia and the Pacific	Mr. Md. Abdus Sattar Director General (Grade-1) BSTI, Dhaka	ISO	14th March, 2023	16th March, 2023	ISO

7.2.1 Standards Wing (Local & Overseas):

SL.	Name of the Training/ Program	Name & Designation of the Officers	Duration
1.	44th International Organization for Standardizations (ISO) General Assembly	Dr.Md. Nazrul Anwar Director General (Grade-1)	19-23 September, 2022
2.	The ISO Regional workshop on Gender Action Plans, Manila, Philippines	Engr. Nilufa Hoque Director Standards	29 November to 1 December, 2022
3.	The FAO/WHO food standards programme "26th session of Codex Committee on Residues of Veterinary Drugs in Foods (CCRVDF)'' Portland, Oregon, USA.	Mr. Md. Abdus Sattar Director General (Grade-1)	13-17 February, 2023
4.	ISO Forum for Chief Executive Officers of Members in the Asia and the Pacific, Malaysia	Mr. Md. Abdus Sattar Director General (Grade-1)	14-16 March, 2023
5.	Workshop on Efficient Food Storage Technologies and Management Practices	Mr. Md. Enamul Hoque Deputy Director, Standards Wing	20-22 September, 2022
6.	The Cochran Fellowship Programme U.S. Food Safety Regulations & Standards	Mr. Md. Enamul Hoque Deputy Director, Standards Wing	October 29th – November 12th, 2022
7.	The 26th Session of the Codex Committee on Food Import and Export Inspection and Certification Systems (CCFICS26) : PLENARY SESSION	Mr. Md. Enamul Hoque Deputy Director, Standards Wing	1-5 May, 2023
8.	Codex Committee on Food Labelling Confirmation	Mr. Md. Enamul Hoque Deputy Director, Standards Wing	Mar 10, 2023
9.	CCFICS26 – Pre-Session Webinar, Plenary Session, Working Groups, Side Events: Pre Session Webinar	Mr. Md. Enamul Hoque Deputy Director, Standards Wing	24 April, 2023
10.	Codex Committee on Food Labelling (CCFL) – Food Allergen Webinar Confirmation	Mr. Md. Enamul Hoque Deputy Director, Standards Wing	Mar 23, 2023
11.	Bio-Digital Convergence Standardization Webinar	Rahima Talukder Deputy Director, Standards Wing	Dec 6, 2022 Dec 8, 2022
12.	New IEC Mentoring Programme – information session	Rahima Talukder Deputy Director, Standards Wing	Dec 12, 2022
13.	ISO/IEC Artificial Intelligence Workshop	Rahima Talukder Deputy Director, Standards Wing	Nov 29, 2022 Nov 30, 2022
14.	Technical regulations - the importance of technical regulations organized by Saudi Standards, Metrology and Quality Organization (SASO)	Manzur Rahman Examiner, Standards Wing	31 Jan, 2023
15.	OIC SMIIC 9:2019 Foundation Training in English Confirmation	Muhammad Ekhlas Uddin Examiner, Standards Wing	Mar 15, 2023 Mar 16, 2023
16.	Seminar on Standardization Cooperation for Developing Countries	Md. Saddam Hosssain khan Examiner, Standards Wing	13th April 2023 to 26th April 2023
17.	Training on E-application	All officers of Standards Wing	26th June, 2023

7.2.2 Chemical Testing Wing (Local & Overseas):

Sl.	Name & Designation of the officers	Name of the Training/Activity	Organizer	Duration		Remarks (Source of Expenditure)
				From	To	
1	Mr. Monirul Islam, Asstt. Director (Chemical)	Lab Training on Faecal Sludge and Waste Water parameter analysis	ITN-BUET	02-07-2022	05-07-2022	ITN-BUET
2	Mr. Sharif Muhammad Syeduzzaman, Asstt. Director (Chemical)	Training on 'OIC/SMIIC 2 :2019 Conformity Assessment – Requirements for Bodies Providing Halal Certification'	SMIIC, Turkey	25-07-2022	28-07-2022	Virtual Mode
3	Mr. Sharif Muhammad Syeduzzaman, Asstt. Director (Chemical)	Training on 'OIC/SMIIC 24 :2020 General Requirements for Food Additives and Other Added Chemicals to Halal Food'	SMIIC Turkey	16-08-2022	18-08-2022	Virtual Mode
4	1. Mr. Sumanto Chandra Paul, Examiner (Food & Bact.) 2.Mr. Dos Mohammad Examiner (Chemical)	Understanding Training on ISO/IEC 17025:2017	Bangladesh Accreditation Board (BAB)	22-11-2022	24-11-2023	GoB
5	1. Mr. Md. Shah Alam Asstt. Director (Chemical) 2. Mrs. Shanjida Afrin, Sr. Examiner (Food & Bact.)	Codex Capacity Enhancement Workshop Towards a National Codex Strategy for Bangladesh	Bangladesh Trade Facilitation project (BTF)	24-05-2023	25-05-2023	United States Department of Agriculture (USDA)
6	Mr. Sharif Muhammad Syeduzzaman, Asstt. Director (Chemical)	Training on D-Nothi	Bangladesh Institute of Management	24-05-2023	25-05-2023	GoB
7	Mr. Ibrahim Khalil Asstt. Director (Chemical)	BIO-Signal Acquisition and analysis	Central Scientific Instruments Organization (INDIA)	06-11-2023	17-11-2023	ITEC, India

Field Visits

Mr. Md. Abdus Sattar, Director General (Grade-1) of BSTI visited Khulna Divisional Office on 12-13 May, 2023, Chottragram Divisional Office on 13-15 January, 2023. Engr. Nilufa Hoque, Director (Standards) visited Sylhet Divisional Office on 25-26 February, 2023.

7.3 Accreditation Status of BSTI

BSTI Laboratory Accreditation: The Accreditation of BSTI Laboratories has been granted in accordance with ISO/IEC 17025:2005 in the field of Chemical, Mechanical & Biological Testing by NABL India, on March 18, 2011 and valid date 14th June, 2017. With the approval of authority BSTI applied to the Bangladesh Accreditation Board (BAB) for getting the accreditation. Assessors of BAB assessed the laboratories of BSTI in the field of Chemical, Mechanical & Biological Testing and based on the satisfactory performance of the laboratories BAB awarded accreditation in accordance with ISO/IEC 17025:2017 to BSTI for 283 parameters of 35 products. The validity of Accreditation Certification is up to 30 December 2023.

Total Accredited products: 35 Nos.
Chemical Wing - 30 & Physical Wing- 5

7.3.1 Accredited products of Chemical Testing Wings 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, Soybean oil, Palm oil, Palm Olein, Rice Bran oil, Sunflower oil and Black Tea.

7.3.1.1 Accreditation status of Food & Bacteriology Division:

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. At present 227 parameters of 28 Food products are accredited from Bangladesh Accreditation Board (BAB) as per ISO/IEC 17025:2017.

Accredited Laboratories are:

- ☐ Cereal and bakery lab.
- ☐ Processed fruit products and fruit drinks lab.
- ☐ Water and beverages lab.
- ☐ Oils and Fats Lab.
- ☐ Microbiological lab.
- ☐ Instrumental lab. (AAS and HPLC).

7.3.1.2 Accreditation status of Chemical division

Cement, M.S Rod, Soap and Shampoo 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. At present 21 parameters of 4 Chemical products are accredited from Bangladesh Accreditation Board (BAB) as per ISO/IEC 17025:2017.

Accredited Chemical Laboratories are:

- ☐ Soap and Detergent Lab.
- ☐ Building materials Lab.

7.3.2 Accredited Products of Physical Testing Laboratories are:

Cement, Building Materials (MS-Rod, GI Pipe, MS Angle & MS Plate), Textile & Garments.

7.3.2 Achievment and on-going Development Activities:

a. Achievment:

SL.	Activities
1.	Introduction of Web based Real Time Quick Response (QR) code system for issuing BSTI license/ certificate/clearance certificate/test report/packaged commodities registration/verification/ calibration.
2.	Development of e-application system for online application, SMS services, fee receipt, BDS sale and database of BSTI personnel.
3.	Issuance of Halal Certificates for different products.
4.	Revised and published BSTI Regulations 2022.
5.	Revised and published of Package Commodities Rules 2021.
6.	Issuance of certificate for purity of imported Gold.
7.	Vertical extension of 4 (four) BSTI Divisional and District Offices.
8.	Agreement with Sonali Bank Ltd. for online payment of BSTI fees using Sonali Payment Gateway Software.
9.	Process of recruitment for 92 officers and 29 staff has been completed.

b. on-going Development Activities

SL.	Activities
1	Introduction of Basic Training Course for BSTI officials for their capacity building.
2	Development of apps for `b' mark checking of packagedgoods registration issued by BSTI.
3	Establishment and expansion of 10 regional offices with laboratories of BSTI at 10 districts.
4	Expansion and modernization of physical and chemical testing laboratories at head office of BSTI.
5	Expansion of National Metrology laboratories and Training academy facilities.
6	Vertical extension of 4 (four) BSTI Divisional and District Offices.
7	Establishment of residential flats for officers and staff at BSTI Quaters, Banani residential area.
8	Establishment of bank booth at BSTI head office for receiving fees.
9	Establishment of Ring Main Unit (RMU) for Sub-station 1250 KW at BSTI head office.
10.	Total 175 posts have been created for BSTI field offices, halal division, National Metrology Lab and other labs including BSTI lab of Prime Minister's office.
11.	Proposal of upgrading the post of Directors, Deputy Directors, Asst. Directors and Senior Examiners.
12.	Proposal submitted to line Ministry for creation of 138 new post to strengthening the capacity of BSTI.

8. APA Implementation

BSTI has been awarded 1st position in FY 2019-2020 for its APA implementation. Again, BSTI has achieved the 1st position in APA implementation for the FY 2021-2022 among the 12 departments, corporation and Institution of the Ministry of Industries.

9. Development Project of BSTI

Establishment and Modernization of BSTI Regional Offices at Chittagong & Khulna.
Approved Cost :Tk. 28291.00 Lac
Implementation period:
July 2015 - June 2025
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.

Newly Constructed BSTI Divisional office, Khulna

Construction work of Chattogram Project part

10. International Activities

BSTI maintains liaison with almost all International and Regional organizations in relation 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 an Associate Member of International Bureau of Weights and Measures (BIPM). BSTI is the IEC Affiliate member of IEC since 2001 and Affiliate Plus since 2012. BSTI is the member of Codex Alimentarious Commission (CAC) since 1975 and is the focal point of CAC. Recently BSTI also the Member of The Standards and Metrology Institute for Islamic Countries (SMIIC) since 2021. The Institution participates actively in the work of the SAARC standing committee on standards, metrology, testing and quality. The BSTI maintains relations with WTO, ITC, AFIT, Codex Alimentarius Commission of FAO and other international and regional organizations.

WTO-TBT; National Enquiry Point

BSTI has been designated as a National Enquiry Point for Bangladesh for the World Trade Organization (WTO) Technical Barriers to Trade (TBT) Agreement since 2002. The e-mail address of the Bangladesh WTO-TBT National Enquiry Point is: arafat_cm@bsti.gov.bd

11. Public Service Information

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 the issuing of a CM license. As such, BSTI has started a One Stop Service Centre as part of fulfilling its commitment for rebdering better sercice to the people.

BSTI website:

BSTI has established a well-developed, dynamic web site at **www.bsti.gov.bd** including LAN for information. A Complaint Box has also been included in the BSTI Website. Bangladesh Standards are also available for online purchase through **www.bstibds.com**

Citizen Charter:

To provide time bound services to the clients and stakeholders, BSTI has displayed Citizen Charter its all offices throughout the country.

Hotline:

BSTI introduce a hotline number **16119** for quick response to its clients.

12. E-Services of BSTI

Website: BSTI has a dynamic website (www.bsti.gov.bd) with desired information for the people.

Bill Management software: this application (https://bstibillingsoft.org) has been launched on 04-04-2017 in order to digitize the bill collection system at one stop service center of BSTI head office.

Inventory Management software: Aweb-based inventory Management software (https://bstiinventory.org) has been developed to digitize the operation of the store section of BSTI Head Office.

E-Catalog and BDS Sale software: Through e-Catalog & BDS Sale' application software (https://bstibds.com) BDS made by BSTI buyers can check BDS completely online without visiting BSTI and purchase BDS without any extra cost and time through-e-payment.

E-Catalogue & Bangladesh Standards (BDS) Sale: Anyone can purchase BDS and pay bills through e-payment.

Short Code Number: This application helps to inform BSTI immediately if there is any doubt about the quality of the products/complaints about the manufactured products.

Queue Management System: BSTI's One Stop Service Center uses this process for setting up a modern |Queue Management System to provide orderly service to the customers.

Boost up computer network of BSTI: Internet speed has been increased from 50 mbps to 150 mbps at BSTI and also a parallel internet connection of 20 mbps has been established for the office of the Director General including OneStop Service Centre.

Wifi Zone: Now BSTI's one stop service center and entire campus including DMI has been brought under Wifi Zone.

E-mail ID with domain: In order to ensure the reliability and security of e-mail ID with domain has been created from Bangladesh Computer Council (BCC).

e-GP: An initiative has been taken to complete 50% of BSTI purchases through e-GP in FY 2021-2022.

e-nothi: Official activities are being carried out through e-nothi.

SMS: In the interest of the public, on special days of BSTI (Such s world Standards Day, World Metrology Day etc) various information about the organization's activities, slogans, news, testing facilities, public awareness information are sent to the general public through mobile phone SMS.

QR- **Code based Licence:** Develop and implement Real Time Quick Response (QTQR)Code with online based License Issue, Renew, Cancellation, suspension and Verification of BSTI License, Clearance Certificates, and logo against products and Test Reports of BSTI Laboratories. Following are the objectives which BSTI wants to achieve by this job.

1. License/Certificate/Test Reports information easily available at anwhere and anytime for verification by stakeholders.
2. Stop License/Certificate/Test Reports forgery.
3. Increase trust of stakeholders on BSTI.
4. Make information available to all levels concerned.
5. Increase efficiency of BSTI work process.
6. Secure information data for analysis and decision making.

e-Application management System: To ensure quality of BSTI develop and implement an e-Application Management System with web-based application submission, billing and payment receipt, SMS services, personnel information and report generating option. As a result, they need to work on different sectors to fully fulfil the purposes. The main objectives of this project are automation of all wings activities of BSTI.

Chapter-3

Right to Information (RTI)

List of Designated Officers for RTI as per Right to Information Act, 2009

Sl.	Name of Designated Officers and Offices	Address	Telephone/Mobile/E-mail
1.	Mr. Md. Reazul Haque Deputy Director (CM) BSTI Head Office , Dhaka	MaanBhaban 116-A, Tejgaon I/A Dhaka-1208	Tel: 02-9131582 Mob: 01915479553 Email:reazul112@yahoo.com
2.	Mr. Taiub Ali Assistant Director (Physical) Rajshahi	BSTI Divisional Office, Rajshahi Bipass Road, Nawdapara, Sapuura, Rajshahi	Tel: 0721-861398 Mob:01723538067 Email:taiubali03@gmail.com
3.	Mr. Md. Kamal Hossain Assistant Director (Chemical) Syllhet	BSTI Divisional Office, Sylhet BSCIC Industrial Park Khadimnagar, Syllhet	Tel: 0821-2870935 Mob: 01717255232 Email:bstisylhet@gmail.com
4.	Engr. Shashi Kanta Das Assistant Director (CM) Chattogram	BSTI Divisional Office, Chattagram Jamburi Ground, Agrabad, Chattogram	Tel: 031-721137 Mob: 01735431721 Email:shashidas95@gmail.com
5.	Mr. Md. Shahinur Islam Deputy Director (Met) DMI, Dhaka	Dhaka Metrology Inspectorate (DMI) 116-A, Tejgaon I/A Dhaka-1208	Tel: 55030085 Mob: 01711173550 Email:dmi_bsti@yahoo.com asamadbsti@gmail.com
6.	Mr. Sayed Mostafa Kamal Assistant Director (Physical) Khulna	BSTI Divisional Office, Khulna 62, Old Jessore road Khalishpur, Khulna	Tel: 041-761542 Mob: 01915-595337 Email:sayedmostafa91@gmail.com
7.	Mr. Ziaul Haque Assistant Director (CM) Barisal	BSTI Divisional Office, Barishal BSCIC Industrial Park Kaunia, Barisal	Tel: 02478861430 Mob: 01723847929 Email: ziahaque5@gmail.com
8.	Mr. Khela Rani Kar Inspector (Metrology) Mymensingh	BSTI Divisional Office, Mymensingh Kismot, RahmotpurSadar Mymensingh.	Tel: 031-721137 Mob: 01533339267 Email: khelaranikar@gmail.com
9.	Mr. Md. Jahidur Rahman Assistant Director (CM) Rangpur	BSTI Divisional Office, Rangpur House No-46/2, Road No-01 PorjotonPurbapara Post- Sadar, Rangpur-5400.	Mob: 01913802632 Email:animesh98503@gmail.com
10.	Mr. Md. Shahidul Islam Assistant Director (CM) Cumilla	BSTI District Office, Cumilla Holding No.21/1, Ward No-23 Dhanpur Kotbari Road Cumilla-3502.	Mob: 01946551202 Email:shahidulctp@gmail.com
11.	Mr. Mithun Das Assistant Director (Met) Faridpur	BSTI District Office, Faridpur BSCIC Industrial Area, Kanaipur Faridpur-7801.	Mob: 01704691707 Email: dasmithun549@gmail.com
12.	Engr. Mesbah-ul-Hasan Field Officer (CM) Bogura	BSTI District Office, Bogura Old UpozilaBhaban Kaigary, Bogura.	Tel: 051-64888 Mob: 01740972636 Email:zunaid365@gmail.com
13.	Mr. Ajam Uddin Examiner (Chemical) Cox'bazar	BSTI District Office, Cox's Bazar Plot: 4-5, New Circuit House Road, Cox'sbazar.	Mob: 01905884680 Email: ajam.bsti@gmail.com

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 the office	Appellate Authority	Address of the Appellate Authority
BSTI Head Office, Dhaka and its Divisional offices: Dhaka, Chattogram, Rajshahi, Khulna, Barisal, Sylhet, Mymensingh and Rangpur. District Officecs: Faridpur, Cumilla and Cox'bazar.	Director General, BSTI	Maan Bhaban 116-A, Tejgaon I/A Dhaka-1208

RTI Activities from July 2022- June 2023 (Comparative figure with last 2 Years)

SL.	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 Net Providing Information
1.	2020-2021	BSTI	10	10	Not Applicable	Not Applicable	No Cost Charge	Not applicable
2.	2021-2022	BSTI	04	04	Not Applicable	Not Applicable	No Cost Charge	Not applicable
3.	2022-2023	BSTI	19	19	Not Applicable	Not Applicable	No Cost Charge	Not applicable

Chapter-4

Mandatory Products List

List of 275 Products Brought Under Mandatory Certification Marks Wing:

A. Agricultural and Food Products (102 Items):

SI. No.	Name of the Products	Standard No. and year
1.	Plywood Tea – Chest	BDS 18:2006 (2nd Rev.)
2.	Mustard Oil, Amendment-1, 2020	BDS 25:2015 (2nd Rev.)
3.	Refined Sugar, Amend-1, 2008	BDS 138:2006 (2nd Rev.)
4.	Suji (Semolina)	BDS 190:2016 (2nd Rev.)
5.	Poultry feeds	BDS 233:2019 (3rd Rev.)
6.	Wheat Atta	BDS 380:2007 (2nd Rev.)
7.	Maida	BDS 381:2007 (3rd Rev.)
8.	Bread, Amend-1, 2018	BDS 382:2016 (3rd Rev.)
9.	Biscuits	BDS 383:2001 (2nd Rev.)
10.	Macaroni, spaghetti and vermicelli	BDS 384:2017(2nd Rev.)
11.	Lozenges	BDS 490:2014 (3rd Rev.)
12.	Canned and Bottled Fruits	BDS 503:2006 (1st Rev.)
13.	Fruit Squashes	BDS 506:2002 (2nd Rev.)
14.	Fruit Cordial	BDS 508:2006 (2nd Rev.)
15.	Sauce (Fruits or vegetables)	BDS 512:2017 (2nd Rev.)
16.	Fruits and Vegetables Juices	BDS 513:2013 (3rd Rev.)
17.	Tomato Paste	BDS 517:2015 (3rd Rev.)
18.	Chutneys (2nd Rev.)	BDS 521:2011 Amendment-1, 2018
19.	Fermented vinegar	BDS 523:2015 (2nd Rev.)
20.	Concentrated Fruit Juice	BDS 527:2015 (2nd Rev.)
21.	Fruit Syrup	BDS 528:2019 (3rd Rev.)
22.	Tomato ketchup	BDS 530:2002 (2nd Rev.)
23.	a) Soluble coffee powder, Amend-1, 2020 b) Roasted and ground coffee c) Roasted coffee-chicory powder	a) BDS 763:2016 (2nd Rev.) b) BDS 805:2016 (1st Rev.) c) BDS 806:2016 (1st Rev.)
24.	Plywood for General Purposes	BDS 799:2006 (2nd Rev.)
25.	Banaspati	BDS 804:2011 (2nd Rev.)
26.	Milk powder	BDS 860:2020 (2nd Rev.)
27.	Butter Oil and Ghee, Amend-1, 2020	BDS 908:2012 (2nd Rev.)
28.	Turmeric Powder	BDS 991:2020 (2nd Rev.)
29.	Wheat Bran	BDS 997:2006 (1st Rev.)
30.	Toffees	BDS 1000:2001 (1st Rev.)
31.	Wafer Biscuits	BDS 1001:2010 (1st Rev.)
32.	Chilli powder	BDS 1017:2020 (2nd Rev.)
33.	Honey	BDS 1039:2022 (2nd Rev.)
34.	Safety matches in boxes	BDS 1040:2006 (1st Rev.)
35.	Ice Cream	BDS 1083:2006 (1st Rev.)
36.	Coriander powder, Amend-1, 2020	BDS 1084:2015 (1st Rev.)
37.	Mosquito Coil	BDS 1089:2018 (3rd Rev.)
38.	Noodles	BDS 1106:2015 (2nd Rev.)
39.	Carbonated Beverages	BDS 1123:2022 (4th Rev.)
40.	Malathion 57 % (W/V) (Emulsifiable Concentrates)	BDS 1179:2001 (1st Rev.)
41.	Chhana (1st Rev.)	BDS 1180:2016
42.	Curry Powder, Amend-1, 2020	BDS 1205:2013 (2nd Rev.)
43.	Iodized Salt	BDS 1236:2020 (2nd Rev.)
44.	Packaged Drinking Water	BDS 1240:2021 (2nd Rev.)
45.	Natural Mineral Water	BDS 1414:2021 (2nd Rev.)
46.	Lassi (Yoghurt drink)	BDS 1470:2015 (1st Rev.)
47.	Flavoured Milk	BDS 1471:2012
48.	Chewing gum, ball gum and bubble gum	BDS 1498:2012 (1st Rev.)
49.	Instant Noodles	BDS 1552:2015 (2nd Rev.)
50.	Chips and Crackers, Amend-1, 2019	BDS 1556:2017 (1st Rev.)
51.	Chanachur	BDS 1564:2016 (1st Rev.)
52.	Cakes	BDS 1574:2021 (3rd Rev.)
53.	Fruit Drinks	BDS 1581:2015 (2nd Rev.)
54.	Household Insecticide Aerosol	BDS 1585:2023 (1st Rev.)
55.	Soft Drink Powder	BDS 1586:2007 (1st Rev.)
56.	Lachsa Shemai, Amend-1, 2020	BDS 1620:2000
57.	Pasteurized Milk	BDS 1702:2019 (1st Rev.)
58.	Soy sauce	BDS 1718:2002

59.	Fortified Soybean Oil, Amend-1, 2021	BDS 1769:2014 (1st Rev.)
60.	Fortified Edible Palm Oil, Amend-1, 2021	BDS 1770:2014 (1st Rev.)
61.	Fortified Edible Sunflower Oil	BDS 1773:2016 (1st Rev.)
62.	Fortified Palm Olein, Amend -2, 2021	BDS 1774:2006
63.	Sweetened/Unsweetened Condensed Filled Milk	BDS 1780:2014 (1st Rev.)
64.	Muri (puffed rice)	BDS 1796:2008
65.	Edible Jell, Amend-1, 2018	BDS 1801:2015 (2nd Rev.)
66.	Ultra High Temperature (UHT) Treated Milk	BDS 1805:2022 (1st Rev.)
67.	Cumin powder, Amend-1, 2020	BDS 1807:2008
68.	Sweetmeats	BDS 1811:2008
69.	Ice Lolly, Amend-1, 2021	BDS 1847:2011
70.	Pasteurized Low Fat Milk and Standardized Milk	BDS 1866:2022 (1st Rev.)
71.	Artificial Flavoured Drinks	BDS 1877:2014
72.	Fortified Edible Rice Bran Oil	BDS 1886:2014
73.	Synthetic Vinegar	BDS 1896:2015
74.	Fish Feed	BDS 1915:2022
75.	Potato Chips, Amend-1, 2021	BDS 1927:2017
76.	Malt Drink	BDS 1994:2021
77.	Malt based food	BDS 1995:2022
78.	Corn Flakes	BDS 1957:2018
79.	Oats	BDS 1960:2019
80.	Roti (Flat bread/Tortilla)	BDS 1998:2022
81.	Decorated Cake	BDS 2008:2022
82.	Dextrose Monohydrate	BDS CAC 8:2007
83.	Liquid Glucose (Glucose Syrup)	BDS CAC 9:2006
84.	Canned Pineapple	BDS CAC 42:2007
85.	Infant Formula and Formulas for Special Medical purposes intended for Infants	BDS CAC 72:2008
86.	Processed cereal based food for Infants and Young Children	BDS CAC 74:2022
87.	Chocolate	BDS CAC 87:2008
88.	Follow-up formula, Amend-1, 2009	BDS CAC 156:2008
89.	Sugar	BDS CAC 212:2006
90.	Fermented Milks	BDS CAC 243:2015
91.	A Blend of skimmed milk and vegetable fat in powdered form	BDS CXS 251:2021
92.	Pickled Fruits and Vegetables	BDS CAC 260:2014
93.	Cream Cheeses	BDS CAC 275:2020
94.	Extra Hard Grating Cheese	BDS CAC 278:2020
95.	Cheese	BDS CXS 283:2022
96.	Whey Cheeses	BDS CXS 284:2022
97.	Jams, Jellies and Marmalades	BDS CAC 296:2014
98.	Butter	BDS CAC A-1:2002
99.	Sweetened Condensed Milk	BDS CAC A-4:2002
100.	Black Tea - Definition and Basic requirements	BDS ISO 3720:2017
101.	Instant Tea in Solid Form – Specification	BDS ISO 6079:2015
102.	Green Tea – Definition and basic Requirements	BDS ISO 11287:2012

B. Chemical Products (73 items):

SL. No.	Name of the products	Standard No. and year
103.	Laundry Soaps	BDS 12:2019 (3rd Revision)
104.	Toilet Soap	BDS 13:2021 (4th Revision)
105.	Coal Tar Black Paint (Alquatra)	BDS 69 (Part 2):1991 Amendment 1:2006
106.	Stamp Pad Ink	BDS 90:2011 (2nd Revision)
107.	Coconut Oil	BDS 99:2007 (2nd Revision)
108.	Aluminium Sulphate, Non Ferric	BDS 149:2014 (2nd Revision)
109.	Triple Super Phosphate (T.S.P)	BDS 216:1991 (1st Revision) Amendment 1, 2: 2007
110.	Urea (Fertilizer)	BDS 217:2011 (2nd Revision)
111.	Pencils	BDS 330:1993 (1st Revision) Amendment 1:2006
112.	Sole Leather (Vegetable Tanned)	BDS 340:2012 (2nd Revision)
113.	Internal combustion engine Crankcase oils for Automotive Application (Diesel and gasoline)	BDS 343:2022 (2nd Revision)
114.	High Speed Diesel	BDS 344:2020 (3rd Revision)
115.	Unleaded Motor Gasoline – Premium	BDS 346:2010 (4th Revision) Reaffirmed 2020
116.	Unleaded Motor Gasoline - Regular	BDS 347:2019 (5th Revision)
117.	Ready Mixed Paint, Brushing, Finishing semi - Gloss for general purpose	BDS 402:1989 (1st Revision) Amendment 1, 2:2007
118.	Writing and Printing Papers	BDS 405:2012 (2nd Revision)
119.	Carbon Paper for type writer	BDS 411:1989 (1st Revision) Amendment 1:2006
120.	Ceramic Tableware	BDS 485:2000 (2nd Revision) Amendment 1, 2, 3:2006
121.	Newsprint	BDS 845:2012 (2nd Revision)
122.	Shoe polish, Paste	BDS 1006:1981 Amendment 1:2006
123.	Tooth Paste	BDS 1216:2012 (2nd Revision)
124.	Shaving Cream	BDS 1241:2017 (1st Revision)
125.	Shampoo, Surfactant based	BDS 1269:2022 (4th Revision)
126.	Skin Powders	BDS 1337:2015 (1st Revision)
127.	Hair Oils	BDS 1339:2018 (1st Revision)
128.	Tooth Powder	BDS 1370:2017 (1st Revision)
129.	Skin Creams	BDS 1382:2019 (3rd Revision)
130.	Ball Point Pens	BDS 1384:2022 (2nd Revision)
131.	Nail Polish (Nail Enamel)	BDS 1421:1992 Reaffirmed 2021
132.	Enamel synthetic exterior: a) Undercoating b) Finishing	BDS 1423:2018 (1st Revision)
133.	Lipstick	BDS 1424:1993 Amendment 1, 2:2006
134.	Tableware made of melamine moulding compound	BDS 1425:2009 (1st Revision)
135.	Synthetic Detergent Powder	BDS 1445:2019 (2nd Revision)
136.	After Shave Lotion	BDS 1524:2006 (1st Revision)
137.	Liquid Dish Wash	BDS 1554:2021 (1st Revision)
138.	Direct Moulded Sole (DMS) Boots for General purpose.	BDS 1555:1997
139.	Diammonium Phosphate	BDS 1628:2000
140.	Rotational moulded polyethylene water storage tanks	BDS 1699:2002
141.	Cement Paints	BDS 1706:2015 (1st Revision)
142.	Liquid Toilet Cleaner (Porcelain bowls and urinals)	BDS 1707:2021 (1st Revision)
143.	Facial tissue paper	BDS 1723:2022 (1st Revision)
144.	Toilet tissue papers	BDS 1745:2022 (1st Revision)
145.	Baby Oil	BDS 1766:2019 (1st Revision)
146.	Toilet Soap for Babies	BDS 1798:2019 (1st Revision)
147.	Tableware made of urea moulding compound	BDS 1825:2011 (1st Revision)
148.	Emulsion Paint	BDS 1827:2018 (1st Revision)
149.	Float glass	BDS 1832:2010
150.	Economy Emulsion Paint (Distemper)	BDS 1833:2018 (1st Revision)
151.	Skin powder for babies	BDS 1844:2011
152.	Skin Creams and Lotions for Babies	BDS 1858:2019 (1st Revision)
153.	Liquid Floor Cleaner	BDS 1859:2021 (1st Revision)
154.	Glass Tableware	BDS 1874:2013

155.	Baby Shampoo	BDS 1884:2014
156.	Skin Lotions	BDS 1923:2019 (1st Revision)
157.	Leather Footwear (Physical)	BDS 1944:2021 (1st Revision)
158.	Containers for Packaging of Mineral Water and Drinking Water.	BDS 1958:2019
159.	Natural Henna/Mehedi (Powder and Paste)	BDS 1966:2019
160.	Synthetic Colour Paste	BDS 1967:2019
161.	Liquid Hand wash	BDS 1973:2019
162.	Alcohol Based Hand Sanitizers	BDS 1980:2020
163.	Hair Dyes, Liquid	BDS 1338:1991
164.	Shoe Polish, Liquid	BDS 1589:1998
165.	Petroleum Jelly	BDS 1597:1998
166.	Shaving Foam	BDS 1986:2021
167.	Eye Care Products	BDS 1987:2021
168.	Face Wash	BDS 2000:2022
169.	Glycerin Toilet Soap	BDS 1536:2016
170.	Liquid Toilet Soap	BDS 1740:2004
171.	Transparent Toilet Soap	BDS 1908:2016
172.	Face Pack	BDS 1977:2020
173.	Kajal	BDS 1949:2018
174.	Hair cream	BDS 1420:1992
175.	Toothbrush — Manual	BDS ISO 20126:2023

C. Engineering Products (35 items):

SL. No.	Name of the products	Standard No. and year
176.	Common Building Clay Bricks	BDS 208:2022 (3rd Revision)
177.	Safety Razor Blades	BDS 219:2022 (2nd Revision)
178.	Bi-Cycle Rims	BDS 986:2006 (1st Revision)
179.	Mild Steel(MS) Pipe and Galvanized Iron(GI) Pipes	BDS 1031:2006 (1st Revision)
180.	GP Sheets (With Corrugated Sheets)	BDS 1122:1987 (RA 2021)
181.	Protective Helmets for Scooter & Motorcycle Riders	BDS 1136:2022 (1st Revision)
182.	Sanitary Ware Appliances	BDS 1162:2014
183.	Industrial safety helmet	BDS 1265 : 1990
184.	Gold and Gold Alloys-Grade and Marking	BDS 1515:2021 (1st Revision)
185.	Domestic pressure cookers	BDS 1752:2006
186.	Hollow Clay Bricks And Blocks	BDS 1803:2008
187.	Disposable Razor Blades	BDS 1838:2022 (1st Revision)
188.	Energy-Efficiency Rating of Household Refrigerators, Refrigerator-Freezers and Freezers	BDS 1850:2012
189.	Performance of Air Conditioners and Heat Pumps-Energy Labeling and Minimum Energy Performance Standard (MEPS) Requirements	BDS 1852:2022 (1st Revision)
190.	Household Refrigerators/Freezers	BDS 1849:2012
191.	Pipes and Fittings Made of Unplasticized Polyvinyl Chloride (PVC-U) Used for Potable Water Supply	BDS 1878:2015
192.	Extruded Profiles of Aluminium and Aluminium Alloys	BDS 1879:2014
193.	Cement- Part 1:Composition, Specifications and Conformity Criteria for Common cements	BDS EN 197-1:2003 (RA 2010)
194.	Sanitary Tapware-Single Taps and Combination Taps for Water Supply Systems of Type 1 and Type 2 - General Technical Requirements	BDS EN 200:2009 (RA 2020)
195.	Concrete Paving Blocks- Requirements and Test Methods	BDS EN 1338:2009
196.	Bitumen and Bituminous Binders- Specification for Paving Grade Bitumen Bitumen and Bituminous Binders- Framework for Specifying Cationic Bituminous Emulsions	BDS EN 12591:2009 BDS EN 13808:2009
197.	Unplasticized Polyvinyl Chloride (PVC-U) Profiles for The Fabrication of Windows and Doors — Classification, Requirements and Test Methods	BDS EN 12608:2008
198.	Bitumen and bituminous binders-Polymer modified bitumens	BDS EN 14023:2009
199.	Passenger Car Tyres and Rims(Metic Series) - Part 1:Tyres - Part 2:Rims	BDS ISO 4000-1:2012 BDS ISO 4000-2:2012
200.	Truck and Bus Tyres And Rims (Metric Series) -Part 1:Tyres -Part 2:Rims	BDS ISO 4209-1:2012 (RA 2023) BDS ISO 4209-2:2012
201.	Plastics Piping Systems Systems-Polyethylene(PE) Pipes and Fittings Used for Water Supply- Part 1: General - Part 2: Pipes - Part 3: Fittings	BDS ISO 4427-1:2010 BDS ISO 4427-2:2010 BDS ISO 4427-3:2010
202.	Motorcycle Tyres and Rims (Metric Series) -Part L:Design -Part 2:Tyre -Part 3:Range of Approved Rim Contours	BDS ISO 5751-1:2012 (RA 2023) BDS ISO 5751-2:2012 (RA 2023) BDS ISO 5751-3:2012 (RA 2023)

203.	Steel for the Reinforcement of Concrete- Part 1: Plain Bars - Part 2: Ribbed Bars	BDS ISO 6935-1:2012 (RA 2021) BDS ISO 6935-2:2021
204.	Portable Fire Extinguisher	BDS ISO 7165:2022
205.	Continuous Hot-Dip Aluminium/Zinc Coated Steel Sheet of Commercial, Drawing and Structural Qualities	BDS ISO 9364:2021
206.	Gas Cylinders-Refillable Seamless Aluminum Alloy Gas Cylinders- Design, Construction and Testing	BDS ISO 7866:2008
	Gas Cylinders-Refillable Welded Steel Cylinders- Test Pressure 60 Bar and Below	BDS ISO 4706:2008 (RA 2023)
	Gas Cylinders-Refillable Seamless Steel Gas Cylinders- Design, Construction And Testing - Part 1: Quenched and Tempered Steel Cylinders and Tubes with Tensile Strength Less Than 1100 MPa - Part 2: Quenched and Tempered Steel Cylinders and Tubes with Tensile Strength Greater Than or Equal to 1100 MPa - Part 3: Normalized Steel Cylinders and Tubes	 BDS ISO 9809-1:2008 BDS ISO 9809-2:2008 BDS ISO 9809-3:2008
207.	Ceramic Tiles - Definitions, Classification, Characteristics and Marking	BDS ISO 13006:2021
208.	Clean cookstoves and clean cooking solutions	BDS ISO 19867-1:2019
209.	Gas cylinders — Transportable refillable welded steel cylinders for LPG	BDS ISO 22991:2023
210.	Household and similar electrical appliances – Safety – Part 2-21: Particular requirements for storage water heaters	BDS IEC 60335-2-21:2022

D. Jute and Textile Products (24 items):

Sl. No.	Name of the products	Standards No. and Year
211.	Poplin Fabric	BDS 32:2011 (3rd Revision)
212.	Cotton Sewing Threads	BDS 33:2021 (2nd Revision)
213.	Cotton Sharee – Power Loom	BDS 63:2017 (3rd Revision)
214.	Cotton Canvas	BDS 319:2020 (4th Revision)
215.	Umbrella Cloth	BDS 1125:2020 (2nd Revision)
216.	Woven Shirtings Made of Polyester or Polyester Blends.	BDS 1148:2021(3rd Revision)
217.	Woven Suitings Made of Polyester or Polyester Blends.	BDS 1175:2021(3rd Revision)
218.	Rubber Flat Transmission Belting of Textile Construction for General Use	BDS 1199:2005 (1st Revision)
219.	Rubber Conveyor and Elevator Belting of Ply Construction – Part 1 for General Use.	BDS 1200 (Part 1):2005 (1st Revision)
220.	Industrial Sewing Threads Made Wholly or Partly from Synthetic Fibres	BDS 1221:2021 (4th Revision)
221.	Absorbent Cotton	BDS 1260:2016 (2nd Revision)
222.	Sanitary Napkins	BDS 1261:2019 (2nd Revision)
223.	Handloom Cotton Lungi Cloth	BDS 1331:2017 (2nd Revision)
224.	Silk Fabrics (*Second Revision*)	BDS 1467:2021
225.	Colour Fastness Ratings of Textiles **(টেক্সটাইল পণ্যের রং এর স্থায়িত্বের মাত্রা নির্দিষ্টকরণ)**	BDS 1758:2022 (1st Revision)
226.	Textiles– Jute Bags for Packing 50kg Food Grains	BDS 1767: 2014 *(1st Revision)*
227.	Textiles- Synthetic Mosquito Nets-Specification.	BDS 1882:2014
228.	Towels and Towelling	BDS 1898:2015
229.	Textile Light Weight Jute Sacking Bags for Packing 50kg Food Grains – Specification.	BDS 1974:2019
230.	Hessian Jute Bags for Rice & Pulse	BDS 1989:2021
231.	Hessian Jute Bags for Packing 30 kg Food Grains.	BDS 2005:2022
232.	Disposable diapers	BDS 2006:2022
233.	Nonwoven Wipes.	BDS 2017:2023
234	Textiles – Tests for Colour Fastness – Part E11: Colour Fastness to Steaming	BDS ISO 105-E11:2004

E. Electrical and Electronics Products (41 items):

Sl. No.	Name of the products	Standards No. and Year
235.	Tungsten filament lamps for domestic and similar general lighting purposes – Performance requirements	BDS 17:2006 (3rd revision)
236.	Ceiling Roses	BDS 116:2006 (2nd revision)
237.	Lead-acid starter batteries – Part 1: General requirements and methods of test Part 2: Dimensions of batteries and dimension and marking of terminals Part 3: Dimension of batteries for heavy commercial vehicles	 BDS 206 (Part 1):2002 (2nd revision) BDS 206 (Part 2):2002 (2nd revision) BDS 206 (Part 3):2002 (2nd revision)
238.	Performance and construction of electric circulating fans and regulators	BDS 818: 1998 (1st revision) Amendment 1:2006
239.	Water for use in secondary batteries (first revision)	BDS 834:2007
240.	Insulated flexible cords – Part 1: General requirements Part 2: Requirements for rubber insulated flexible cords Part 3: Requirements for PVC insulated flexible cords Part 4: Flexible cords insulated with varnished glass fibre Part 5: PVC insulated extensible leads Part 6: Methods of test	 BDS 899 (Part 1):2000 (1st revision) BDS 899 (Part 2):2001(1st revision) BDS 899 (Part 3):2001 (1st revision) Amendment 1:2009 BDS 899 (Part 4):2001 (1st revision) BDS 899 (Part 5):2001 (1st revision) BDS 899 (Part 6):2001 (1st revision)
241.	PVC insulated cables (non-armoured for electric power and lighting)	BDS 900:2010 (2nd revision)
242.	Winding Wires – Part 1: Enameled round copper winding wires Part 2: Enameled rectangular copper winding wires Part 3: Enameled round aluminium winding wires Part 4: Enameled rectangular aluminium winding wires Part 5: Test method	 BDS 1034 (Part 1):2006 (1st revision) BDS 1034 (Part 2):2006 (1st revision) BDS 1034 (Part 3):2006 (1st revision) BDS 1034 (Part 4):2006 (1st revision) BDS 1034 (Part 5):2006 (1st revision)
243.	Bare aluminium and aluminium alloy conductors for overhead power transmission Aluminium conductors steel re-inforced for overhead power transmission	BDS 1036:2006 BDS 1037:2003 (1st revision)
244.	Three-phase induction motors	BDS 1139:1986, Amendment 1:2006
245.	Electronic type fan regulators	BDS 1323:1991, Amendment 1:2006
246.	Single phase small ac and universal electric motors	BDS 1367:1992, **Reaffirmed 2023**
247.	Cut-out switches (main switches)	BDS 1395:1993, Reaffirmed 2005
248.	Cross linked polyethylene insulated PVC sheathed cables – Part 1: Working voltages up to and including 1100 V Part 2: For working voltages from 3.3 kV up to and including 33 kV	 BDS 1521(Part 1):1995 BDS 1521(Part 2):1995
249.	Porcelain insulator for overhead power lines with a nominal voltage up to and including 1000 V	BDS 1543:2006 (1st revision)
250.	Self-ballasted fluorescent lamps for general lighting services – Safety requirements Self-ballasted compact fluorescent lamps for general lighting services – Performance requirements	BDS IEC 60968:2022 BDS IEC 60969:2022
251.	Energy efficiency rating for self-ballasted lamps and modular type compact florescent lamps	BDS 1761:2013 (1st revision)
252.	Power transformers – Part 1: General	BDS IEC 60076 (Part 1):2016
253.	Double-capped fluorescent lamps – Performance requirements	BDS IEC 60081:2006
254.	Primary Batteries – Part 1: General Part 2: Physical and electrical specifications Part 3: Watch batteries Part 4: Safety of lithium batteries Part 5: Safety of batteries with aqueous electrolyte	 BDS IEC 60086 (Part 1):2019 BDS IEC 60086 (Part 2):2019 BDS IEC 60086 (Part 3):2019 BDS IEC 60086 (Part 4):2019 BDS IEC 60086 (Part 5):2019
255.	Electric irons for household or similar use – Methods for measuring performance	BDS IEC 60311:2018
256.	Insulators for overhead lines with a nominal voltage above 1000 V – Part 1: Ceramic or glass insulator units for ac systems – Definitions, test methods and acceptance criteria Part 2: Insulator strings and insulator sets for ac systems – Definitions, test methods and acceptance criteria	BDS IEC 60383 (Part 1):2006 BDS IEC 60383 (Part 2):2006
257.	Power cables with extruded insulation and their accessories for rated voltages from 1 kV up to 30 kV – Part 1: Cables for rated voltages of 1 kV and 3 kV Part 2: Cables for rated voltages from 6 kV up to 30 kV Part 4: Test requirement on accessories for cables with rated voltages from 6 kV up to 30 kV	 BDS IEC 60502 (Part 1):2018 BDS IEC 60502 (Part 2):2018 BDS IEC 60502 (Part 4):2018
258.	AC electric ventilating fans and regulators for household and similar purposes	BDS IEC 60665:2020
259.	Switches for household and similar fixed electrical installations – Part 1: General requirements	BDS IEC 60669 (Part 1):2018
260.	Plugs and socket-outlets for household and similar purposes – Part 1: 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	 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

	installations Part 2-4: Particular requirements for plugs and socket-outlets for SELV Part 2-5: Particular requirements for adaptors Part 2-6: Particular requirements for switched socket-outlets with interlock for fixed electrical installations Part 2-7: Particular requirements for cord extension sets	 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
261.	Electrical accessories – Circuit-breakers for over-current protection for household and similar installations – Part 1: Circuit-breakers for AC operation	BDS IEC 60898(Part 1):2016
262.	Photovoltaic devices – Part 1: Measurement of photovoltaic current-voltage characteristics Part 2: Requirements for photovoltaic reference devices Part 3: Measurement principles for terrestrial photovoltaic (PV) solar devices with reference spectral irradiance data Part 9: Classification of solar simulator characteristics Part 10: Methods of linear dependence and linearity measurements	 BDS IEC 60904 (Part 1):2020 BDS IEC 60904 (Part 2):2020 BDS IEC 60904 (Part 3):2020 BDS IEC 60904 (Part 9):2020 BDS IEC 60904 (Part 10):2020
263.	Ballast for tubular fluorescent lamps – Performance requirements	BDS IEC 60921:2005
264.	AC supplied electronic ballasts for tubular fluorescent lamps – Performance requirements	BDS IEC 60929:2005
265.	Secondary cells and batteries for renewable energy storage – General requirements and methods of test – Part 1: Photovoltaic off-grid application	BDS IEC 61427 (Part 1):2016
266.	Electricity metering equipment (ac) – Particular requirements – Part 11: Electromechanical meters for active energy (Class 0.5, 1 and 2)	BDS IEC 62053 (Part 11):2013
267.	Electricity metering equipment (ac) – Particular requirements – Part 21: Static meters for active energy (Classes 1 and 2)	BDS IEC 62053 (Part 21):2013
268.	Electricity metering – Payment systems – Part 31: Particular requirements – Static payment meters for active energy (Classes 1 and 2)	BDS IEC 62055 (Part 31):2017
269.	Battery charge controllers for photovoltaic systems – Performance and functioning	BDS IEC 62509:2016
270.	Self-ballasted LED lamps for general lighting services with supply voltage >50 V – Performance requirements	BDS IEC 62612:2015
271.	Terrestrial photovoltaic (PV) modules – Design qualification and type approval – Part 1: Test requirements Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules Part 1-4: Special requirements for testing of thin-film Cu (In,Ga)(S,Se)$_2$ based photovoltaic (PV) modules Part 2: Test procedures Photovoltaic (PV) module safety qualification – Part 1: Requirements for construction Part 2: Requirements for testing	 BDS IEC 61215(Part 1):2022 BDS IEC 61215 (Part 1-1):2022 BDS IEC 61215 (Part 1-2):2022 BDS IEC 61215(Part 1-3):2022 BDS IEC 61215 (Part 1-4):2022 BDS IEC 61215 (Part 2):2022 BDS IEC 61730 (Part 1):2019 BDS IEC 61730 (Part 2):2019
272.	Safety of power converters for use in photovoltaic power systems – Part 1: General requirements Part 2: Particular requirements for inverters Photovoltaic (PV) systems – Characteristics of the utility interface Utility-interconnected photovoltaic inverters – Test procedure of islanding prevention measures	 BDS IEC 62109 (Part 1):2016 BDS IEC 62109 (Part 2):2016 BDS IEC 61727:2020 BDS IEC 62116:2016
273.	Lead-acid traction batteries – Part 1: General requirements and methods of tests	BDS IEC 60254 (Part 1):2018
274.	Household microwave ovens – Methods for measuring performance	BDS IEC 60705:2008
275.	Uninterruptible power systems (UPS) Part 3: Method of specifying the performance and test requirements	BDS IEC 62040(Part 3):2022

List of 79 Mandatory Products Brought Under Import Policy Order, 2021-2024

SI.	Name of the Products	Standard No. and Year
1.	Butter	BDS CAC A-1:2002
2.	Liquid Glucose (Glucose Syrup)	BDS CAC 9:2006
3.	Honey	BDS CAC 12:2007
4.	Infant Formula and Formulas for Special Medical Purposes Intended for Infants	BDS CAC 72:2008
5.	Processed Cereal Based Food for Infants and Young Children	BDS CAC 74:2007
6.	Chocolate	BDS CAC 87:2008
7.	Refined Sugar	BDS 138:2006 (2nd Revision), Ame.-1:2008
8.	Follow-Up Formula	BDS CAC 156:2008, Amend-1:2009
9.	Milk Powders and Cream Powders i) Cream Powder ii) Whole Milk Powder iii) Partly Skimmed Milk Powder iv) Skimmed Milk Powder	BDS CAC 207:2008 (Amend-1:2009)
10.	Sugar	BDS CAC 212:2006
11.	Jams, Jellies and Marmalades	BDS CAC 296:2014
12.	Biscuits	BDS 383:2001 (2nd Revision)
13.	Lozenges	BDS 490:2014 (3rd Revision)
14.	Sauce (Fruits or Vegetables)	BDS 512:2017 (2nd Revision)
15.	Fruits and Vegetables Juices	BDS 513:2013 (3rd Revision)
16.	Tomato Paste	BDS 517:2015 (3rd Revision)
17.	Fermented Vinegar	BDS 523:2015(2nd Revision)
18.	Tomato Ketchup	BDS 530:2002 (2nd Revision)
19.	a) Soluble Coffee Powder b) Roasted and Ground Coffee c) Roasted Coffee – Chicory Powder	a) BDS 763:2016 (2nd Revision) Ame.-1:2020 b) BDS 805:2016 (1st revision) c) BDS 806:2016 (1st revision)
20.	Toffees	BDS 1000:2001 (1st Revision)
21.	Carbonated Beverages	BDS 1123:2013 (3rd Revision)
22.	Natural Mineral Water	BDS 1414:2000 (1st Revision)
23.	Chewing Gum, Ball Gum and Bubble Gum	BDS 1498:2012 (1st Revision)
24.	Instant Noodles	BDS 1552:2015 (2nd Revision)
25.	Chips and Crackers	BDS 1556:2017 (1st Revision), Ame-1:2019
26.	Soft Drink Powder	BDS 1586:2007 (1st Revision)
27.	Fortified Soybean Oil	BDS 1769:2014 (1st Revision)
28.	Fortified Edible Palm Oil	BDS 1770:2014 (1st Revision)
29.	Fortified Edible Sunflower Oil	BDS 1773:2016 (1st Revision)
30.	Fortified Palm Olein	BDS 1774:2006, Amend-1:2014
31.	Synthetic Vinegar	BDS 1896:2015
32.	Others Cooking Oil (Except Coconut oil, Mustard Oil & Olive Oil)	Vitamin-A testing as per Vitamin-A Enrichment in Edible Oil Act, 2013
33.	Mosquito Coil	BDS 1089:2018 (3rd Revision)
34.	Toilet Soap	BDS 13:2021 (4th Revision)
35.	Coconut Oil	BDS 99:2007 (2nd Revision)
36.	Pencils	BDS 330:1993 (1st Revision) Amend-1:2006
37.	Internal Combustion Engine Crankcase Oils (Diesel and Gasoline)	BDS 343:2012 (1st Revision)
38.	Writing and Printing Papers	BDS 405:2012 (2nd Revision)
39.	Ceramic Tableware	BDS 485:2000 (2nd Revision)Amend-1, 2, 3:2006
40.	Tooth Paste	BDS 1216:2012 (2nd Revision)
41.	Shampoo, Surfactant Based	BDS 1269:2014 (2nd Revision)
42.	Skin Powders	BDS 1337:2015 (1st Revision)
43.	Hair Oils	BDS 1339:2018 (1st Revision)
44.	Skin Creams	BDS 1382:2019 (3rd Revision)
45.	Ball Point Pens	BDS 1384:2002 (1st Revision)
46.	Lipstick	BDS 1424:1993, Amend-1, 2:2006
47.	After Shave Lotion	BDS 1524:2006 (1st Revision)
48.	Baby Oil	BDS 1766:2019 (1st Revision)
49.	Toilet Soap for Babies	BDS 1798:2019 (1st Revision)
50.	Skin Powder for Babies	BDS 1844:2011
51.	Skin Creams And Lotions for Babies	BDS 1858:2019 (1st Revision)
52.	Baby Shampoo	BDS 1884:2014
53.	Skin Lotions	BDS 1923:2019 (1st Revision)
54.	Polyester Blend Shirting (Market Varities)	BDS 1148:2011 (2nd Revision)
55.	Polyester Blend Suiting	BDS 1175:2011 (2nd Revision)
56.	Sanitary Napkins	BDS 1261:2019 (2nd Revision)
57.	Textiles – Colour Fastness Ratings– Specification	BDS 1758:2006
58.	Performance and construction of electric circulating fans and regulators	BDS 818:1998 (1st revision) Amendment 1:2006
59.	Three-phase induction motors	BDS 1139:1986, Amendment 1:2006
60.	Electronic type fan regulators	BDS 1323:1991, Amendment 1:2006
61.	Specification for Household RefrigeratorsFreezers	BDS 1849:2012
62.	Performance of Air Conditioners and Heat Pumps – Energy Labeling and Minimum Energy Performance Standard (MEPS) Requirements	BDS 1852:2012

63.	Double-capped fluorescent lamps – Performance requirements	BDS IEC 60081:2006
64.	Primary Batteries –(a) Part-1 General (b) Part-2 Physical and electrical specifications (c) Part-3 Watch batteries (d) Part 4 Safety of lithium batteries (e) Part-5 Safety of batteries with aqueous 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
65.	Electric irons for household or similar use – Methods for measuring performance	BDS IEC 60311:2018
66.	Switches for household and similar fixed electrical installation – Part 1: General requirements	BDS IEC 60669 (Part-1):2018
67.	Plugs and socket-outlets for household and similar purposes a) Part-1: General requirements b) Part 2-1: Particular requirements for fused plugs c) Part 2-2: Particular requirements for socket-outlets for appliances d) Part 2-3: Particular requirements for switched socket-outlets without interlock for fixed installations e) Part 2-4: Particular requirements for plugs and socket-outlets for SELV f) Part 2-5: Particular requirements for adaptors g) Part 2-6: Particular requirements for switched socket-outlets with interlock for fixed installation h) Part 2-7: Particular requirements for cord extension sets	 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
68.	Electrical accessories – Circuit-breakers for over-current protection for household and similar installations Part-1: Circuit-breakers for AC operation	BDS IEC 60898-1:2016
69.	Ballast for tubular fluorescent lamps – Performance requirements	BDS IEC 60921:2005
70.	Electronic ballasts for tubular fluorescent lamps – Performance requirements	BDS IEC 60929:2005
71.	Electricity metering equipment (ac) – Particular requirements – Part-11: Electromechanical meters for active energy (Class 0.5, 1 and 2)	BDS IEC 62053 (Part 11):2013
72.	Electricity metering – Payment systems – Part: 31 Particular requirement – Static payment meters for active energy (Classes 1 and 2)	BDS IEC 62055-31:2017
73.	Self-ballasted LED lamps for general lighting services with supply voltage > 50 V – Performance requirements	BDS IEC 62612:2015
74.	Safety Razor Blades	BDS 219:2002 (1st Revision)
75.	Protective Helmets for Scooter & Motor Cycle Riders	BDS 1136:1986 Reaffirmed 2007
76.	Sanitary Ware Appliances	BDS 1162:2014
77.	Steel for the Re-enforcement of Concrete – Part-1: Plain Bars, Part-2: Ribbed Bars	BDS ISO 6935-1:2012 BDS ISO 6935-2:2016
78.	Gas Cylinders – Refillable Seamless Aluminum Alloy Gas Cylinders – Design, Construction and Testing. Gas Cylinders – Refillable welded Steel Cylinders –Test Pressure 60 Bar and Below. Gas Cylinders – Refillable Seamless Steel Gas Cylinders – Design, Construction and Testing – Part 1: Quenched and Tempered Steel Cylinders With Tensile Strength Less Than 1100 MPa. Gas Cylinders – Refillable Seamless Steel Gas Cylinders – Design, Construction and Testing – Part 2: Quenched and Tempered Steel Cylinders With Tensile Strength Greater Than or Equal to 1100 MPa. Gas Cylinders – Refillable Seamless Steel Gas Cylinders – Design, Construction and Testing – Part 3: Normalized Steel Cylinders.	BDS ISO 7866:2008 BDS ISO 4706:2008 BDS ISO 9809-1:2008 BDS ISO 9809-2:2008 BDS ISO 9809-3:2008
79.	Ceramic Tiles – Definitions, Classification, Characteristics and Marking	BDS ISO 13006:2015

Chapter-5

Photo Gallery

BSTI Organized a Discussion Meeting on 53rd World Standards Day on 14th October, 2022. Honorable Minister, Ministry of Industries Mr. Nurul Majid Mahmud Humayun MP was present as Chief Guest of the Program. Honorable State Minister, Ministry of Industries Mr. Kamal Ahmed Majumder, Secretary, Ministry of Industries Mr. Zakia Sultana and FBCCI President Mr. Md. Jashim Uddin were present as Special Guest. BSTI Director General (Additional Charge) Zonendra Nath Sarker presided over the meeting.

BSTI Organized a Discussion Meeting on World Metrology Day on 20th May, 2023. Honorable Minister, Ministry of Industries Mr. Nurul Majid Mahmud Humayun MP was present as Chief Guest. Honorable State Minister, Ministry of Industries, Mr. Kamal Ahmed Majumder MP, Mr. Zakia Sultana, Secretary, Ministry of Industries, FBCCI President Mr, Md. Jashim Uddin and Formaer President of BAJUS Dr. Dilip Kumar Roy were present as Special Guest. BSTI Director General (Grade-1) Mr. Md. Abdus Sattar presided over the Meeting.

BSTI Conducts Anti-Adulteration derives throughout the year. The Organization also conducts a nationwide special mobile courts and servilances during the holy month of Ramadan. A Press Briefing Regarding Special Anti Adulteration drives by BSTI on Holy Month of Ramadan at Ministry of Industries on 22nd March, 2023. Honorable Minister, Ministry of Industries Mr. Nurul Majid Mahmud Humayun MP, Honorable State Minister, Ministry of Industries, Mr. Kamal Ahmed Majumder MP and Mr. Zakia Sultana, Secretary, Ministry of Industries were present at the program.

BSTI organized a Public Hearing with stakeholders on 14th November, 2022. Director General (Grade-1) of BSTI Mr. Md. Abdus Sattar was present as chief guest of the program.

Bangladesh Standards and Testing Institution (BSTI) organized a Disscussion Meeting on Sheikh Rasel Day on 18th October, 2022 at BSTI Auditoriam. Director General (Grade-1) of BSTI Mr. Md. Abdus Sattar delivering his speech on this program.

Director General (Grade-1) of BSTI Mr. Md. Abdus Sattar wreath laying on Mural of the Father of the Nation Bangabandhu Sheikh Mujibur Rahman at BSTI premises on the occasion of National Victory Day on 16th December, 2022.

Bangladesh Standards and Testing Institution (BSTI) organized a Disscussion Meeting on National Victory Day on 16th December, 2022 at BSTI Conference Room. Director General (Grade-1) of BSTI Mr. Md. Abdus Sattar delivering his speech on this program.

Signing Ceremony of Memorandum of Understanding (MoU) between BSTI and Bangladesh Trade Facilitation (BTF) Project Funded by United States Department of Agriculture (USDA) at Bangladesh Standards and Testing Institution (BSTI) Conference Room on 7th June, 2023. Director General (Grade-1) of BSTI Mr. Md. Abdus Sattar and Project Director of BTF Mr. Michael J. Parr Signed on Behalf of their Respective Organizations.

BSTI have conferred HALAL and ISO 9001:2015, ISO 14001:2015, ISO 22000:2018 certificate for ensuring Islami Sariah, SMIIC and international standards on 22nd March, 2023 at Ministry of Industries Conference Hall. Honorable Minister, Ministry of Industries, Mr. Nurul Majid Mahmud Humayun MP Handed over the certificates to the Representatives of Different Organization. Honorable State Minister, Ministry of Industries, Mr. Kamal Ahmed Majumder MP and Secretary, Ministry of Industries, Mr Zakia Sultana was present as Special Guest of this Certificate Giving Program.

BSTI have conferred ISO 9001:2015, ISO 14001:2015 and ISO 22000:2018 certificate for ensuring international standard. BSTI Director General (Grade-1) Mr. Abdus Sattar handed over the certificates to the Stackeholders on 14th December, 2022.

BSTI Organized a Workshop on use of LCMS and HPLC Instrument with Robotics Arm in Testing Laboratory of BSTI in the Context of 4th Industrial Revolution on 21st March, 2023. Director General (Grade-1) of BSTI Mr. Abdus Sattar Presided over the Workshop.

Mrs. Zakia Sultana, Secretary, Ministry of Industries visited BSTI Chemical Laboratory on 9th May, 2023.

BSTI Organized a Awarness Meeting with Stakeholders on Grievance Redressal Management on 14th November, 2022. Director General (Grade-1) of BSTI Mr. Abdus Sattar Presided over the Program.

Honorable Minister, Ministry of Industries, Mr. Nurul Majid Mahmud Humayun MP Inaugurated the Recruitment, Joining and Training Program of Newly Appointed Officers of BSTI. Honorable State Minister, Ministry of Industries, Mr. Kamal Ahmed Majumder MP and on behalf of Secretary, Ministry of Industries, Mr. Zonendra Nath Sarker, Additional Secretaty was present as Special Guest of the Program. Director General (Grade-1) of BSTI Mr. Abdus Sattar Presided over the Program.

Newly Appointed Officers of BSTI Visited Walton Hi-Tech Park at Gazipur on 28th December, 2022 as a Part of Their Basic Training.

Honorable Minister, Ministry of Industries, Mr. Nurul Majid Mahmud Humayun MP Inaugurated the Recruitment, Joining and Training Program of Newly Appointed Officers of BSTI. Honorable State Minister, Ministry of Industries, Mr. Kamal Ahmed Majumder MP and on behalf of Secretary, Ministry of Industries, Mr Zonendra Nath Sarker, Additional Secretaty was present as Special Guest of the Program.

4th Meeting of Halal Certification Committee held on 6th March, 2023. Director General (Grade-1) of BSTI Mr. Abdus Sattar Presided over the Meeting.

Newly Appointed Director General of BSTI Mr. Md. Abdus Sattar wreath laying on Cemetery of the Father of the Nation Bangabandhu Sheikh Mujibur Rahman at Tungipara on 31st October, 2022. BSTI Senior Officials were present.

Newly Appointed Director General of BSTI Mr. Abdus Sattar wreath laying on Mural of the Father of the Nation Bangabandhu Sheikh Mujibur Rahman at Dhanmondi 32 on 19th October, 2022. BSTI Senior Officials were present there.

Signing of Annual Performance Agreement (APA) 2023-2024 Between Bangladesh Standards and Testing Institution (BSTI) Head Office and its Divisional and District offices.

AOFC Poster, Size=W_10 x H_15 inch

হালাল সার্টিফিকেট সংক্রান্ত বিজ্ঞপ্তি

সংশ্লিষ্ট সকলের অবগতির জন্য জানানো যাচ্ছে যে, এস.আর.ও নং ২৯৭-আইন/২০২১, তারিখ: ০৮-০৯-২০২১ খ্রিঃ মূলে বাংলাদেশ স্ট্যান্ডার্ডস এন্ড টেস্টিং ইনস্টিটিউশন (বিএসটিআই) পণ্যের হালাল সার্টিফিকেট প্রদান কার্যক্রম শুরু করেছে। হালাল সার্টিফিকেট প্রদানের জন্য ক্ষুদ্র শিল্পের ক্ষেত্রে ১০০০/- (একহাজার) টাকা, মাঝারি শিল্পের ক্ষেত্রে ৩০০০/- (তিন হাজার) টাকা এবং বৃহৎ শিল্পের ক্ষেত্রে ৫০০০/- (পাঁচ হাজার) টাকা ফি নির্ধারণ করা হয়েছে। হালাল সার্টিফিকেটের আবেদন ফরম ও সার্টিফিকেট প্রাপ্তির যাবতীয় নিয়মাবলী জানতে পরিচালক (সিএম) টেলিফোন নং: +৮৮ ০২ ৪৮১১৬৬৬৫ অথবা বিএসটিআই'র ওয়ান স্টপ সার্ভিস সেন্টার (টেলিফোন নং: +৮৮ ০২ ৮৮৭০২৯৮) এ যোগাযোগ করা যেতে পারে।

মোঃ আবদুস সাত্তার
মহাপরিচালক (গ্রেড-১)

বিএসটিআই'র হালাল সনদ গ্রহণ করুন
রপ্তানি বাণিজ্য সম্প্রসারণে ভূমিকা রাখুন

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