

BSTI LABORATORY DIRECTORY



BANGLADESH STANDARDS AND TESTING INSTITUTION (BSTI)
MINISTRY OF INDUSTRIES
Government of the People's Republic of Bangladesh





Editorial Panel

BSTI LABORATORY DIRECTORY

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MINISTRY OF INDUSTRIES
Government of the People's Republic of Bangladesh

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Advisor
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GREETING MESSAGE

Bangladesh Standards and Testing Institution (BSTI) is the national standards body of Bangladesh. In addition to formulation of national standards for products, testing and testing of products in laboratories as per the formulated standards is followed by quality certification. BSTI has state-of-the-art laboratories for product testing. I am very happy to know that this is the first time that BSTI is going to publish a directory of laboratory activities.

BSTI is working as a premier organization in the field of national standard formulation and quality control. BSTI's laboratory has a long history. Here, accurate testing is possible through international quality testing equipment, which increases customer confidence.

The laboratory activities of BSTI are closely linked with the industrial development of the country. By modernizing and expanding its laboratories, we have achieved a new dimension in product quality control. This laboratory plays an important role not only in controlling the quality of domestic products but also in coordinating with international standards. This facilitates the entry of our domestic products into the international market.

I hope, through this publication, the stakeholders will be able to get a proper understanding of the testing facilities and capabilities of the laboratories of this institution and provide necessary suggestions for further modernization of the laboratories. My sincere greetings and thanks to all associated with such an exceptional publication.

Adilur Rahman Khan



Zakia Sultana

Senior Secretary

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MESSAGE

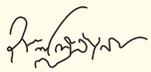
I am very happy to know that Bangladesh Standards and Testing Institution (BSTI) under the Ministry of Industries is going to publish for the first time a directory on laboratory activities and parameter based testing capabilities.

BSTI is a proud member of International Organization for Standardization (ISO), Codex Alimentarius Commission (CAC), Asia Pacific Metrology Programme (APMP), International Organization of Legal Metrology (OIML), International Bureau of Weights and Measures (BIPM), South Asia Regional Standards Organization (SARSO), Standards and Metrology Institute for Islamic Countries (SMIC) and International Electrotechnical Commission (IEC). It approves the marketing of products verified through intensive testing as well as the formulation of product standards.

The institution has a laboratory with the modern equipment of international standards, which is working towards the goal of SDG-2 (Zero hunger) through the quality testing of food products. These laboratories have already received accreditation from various national and foreign accreditation bodies. Its role in expanding the export industry through the production of quality products, marketing and competitive participation in the global market is undeniable. Besides, it is expected to play a significant role in sustainable industrialization by preventing the proliferation of substandard products.

I firmly believe that the laboratory directory is not just a collection of information; rather, as a reliable guide, it can contribute to upscaling institutional efficiency. I extend my sincere thanks and congratulations to all those who are involved with the publication of the Laboratory Directory of BSTI. I wish its wider circulation.

Long live Bangladesh.


(Zakia Sultana)



মহাপরিচালক
(শ্রেণি-১)
বিএসটিআই।

শুভেচ্ছা বার্তা

বাংলাদেশ স্ট্যান্ডার্ডস এন্ড টেস্টিং ইনস্টিটিউশন (বিএসটিআই) একটি “Laboratory Directory” প্রণয়ন করতে যাচ্ছে। এ Laboratory Directory’র বিএসটিআইয়ের প্রতিটি সেবা গ্রহীতা বিভিন্ন ব্যবসায়ী সংগঠন, গবেষক, উন্নয়ন সহযোগীসহ সংশ্লিষ্ট সকলে উপকৃত হবেন।

১৯৫৬ সালে Colombo Plan এর অধীনে ঢাকায় Central Testing Laboratory (CTL) প্রতিষ্ঠিত হয়। ১৯৬৩ সালে Pakistan Standards Institute (PSI) প্রতিষ্ঠিত হয়। স্বাধীনতার পর বাংলাদেশে CTL এবং BDSI দুটি আলাদা সংস্থা হিসেবে নিজ নিজ দায়িত্ব নিয়োজিত ছিলো। ১৯৮৫ সালে বাংলাদেশ সরকারের জারীকৃত “দি বাংলাদেশ স্ট্যান্ডার্ডস এন্ড টেস্টিং ইনস্টিটিউশন অধ্যাদেশ ৩৭, ১৯৮৫ এর মাধ্যমে শিল্প মন্ত্রণালয়ের আওতাধীন বাংলাদেশ স্ট্যান্ডার্ডস এন্ড টেস্টিং ইনস্টিটিউশন (বিএসটিআই) গঠিত হয়। বর্তমানে উক্ত অধ্যাদেশ রহিত করে বাংলাদেশ স্ট্যান্ডার্ডস এন্ড টেস্টিং ইনস্টিটিউশন আইন, ২০১৮ এবং ওজন ও পরিমাপ মানদণ্ড আইন, ২০১৮ এর মাধ্যমে বিএসটিআই পরিচালিত হচ্ছে। এ দ্বারা স্পষ্ট যে, বিএসটিআই’র ল্যাবরেটরির সুদীর্ঘ ইতিহাস রয়েছে।

তৎকালীন বিডিএসআই ১৯৭৪ সালে আন্তর্জাতিক মান সংস্থা International Organization for Standardization (ISO) এর সদস্যপদ লাভ করে। সদস্যপদ অর্জনের পর থেকে ‘আন্তর্জাতিক মান’ অনুসরণ করে পণ্যের মান প্রণয়ন ও বাস্তবায়নের মাধ্যমে দেশে-বিদেশে বাণিজ্য সম্প্রসারণে গুরুত্বপূর্ণ ভূমিকা রেখে চলেছে বিএসটিআই। পরবর্তী সময়ে বিএসটিআই বিভিন্ন আঞ্চলিক এবং আন্তর্জাতিক মান সংস্থার সদস্যপদ লাভ করে।

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 দেশিয় ও আন্তর্জাতিক বাণিজ্যে সহায়তা করার লক্ষ্যে বিএসটিআই প্রধান কার্যালয়ে আমদানিকৃত স্বর্ণের বিশুদ্ধতা যাচাইপূর্বক সার্টিফিকেট প্রদানের জন্য বিএসটিআই’র ল্যাবে অত্যাধুনিক নতুন যন্ত্রপাতি সংযোজন করা হয়েছে, সকল ধরনের ভোজ্য তেল (সয়াবিন অয়েল) কে ফটিফিকেশনের আওতায় এনে ভিটামিন “এ” সমৃদ্ধ করে বাজারজাত করা হচ্ছে। বিএসটিআই’র কার্যক্রমের একটি বড় অংশ খাদ্য পণ্যের গুণগত মান পরীক্ষা করা ও মান সনদ প্রদান করা যা টেকসই উন্নয়ন অভীষ্ট-২: খাদ্য নিরাপত্তা ও উন্নত পুষ্টিমান অর্জনে সহায়ক। তাছাড়া বিদ্যুৎ সশ্রয়ী বৈদ্যুতিক পণ্যের ক্ষেত্রে স্টার লেবেলিং চালুর মাধ্যমে টেকসই উন্নয়ন অভীষ্ট-৭ অর্থাৎ সকলের জন্য বিদ্যুৎ সশ্রয়ী পণ্যের উৎপাদন ও বাজারজাতকরণে ভূমিকা রাখছে।

বিএসটিআই এ যাবত প্রায় ৪,৪০০টি বাংলাদেশ মান (বিডিএস) প্রণয়ন করেছে। এর মধ্যে ২৯৯টি মান বাংলাদেশ সরকার বিভিন্ন সময়ে SRO জারীর মাধ্যমে বাধ্যতামূলক মান সনদের আওতাভুক্ত করেছে।

আমি বিশ্বাস করি বিএসটিআই’র অত্যাধুনিক ল্যাবরেটরি এবং এর পরীক্ষণ সুবিধাদি সম্বলিত ল্যাবরেটরি ডিরেক্টরি সকল সেবা গ্রহীতা, ব্যবসায়ী সংগঠন, গবেষকসহ আগ্রহী ব্যক্তিদের জন্য গুরুত্বপূর্ণ ভূমিকা রাখবে। এ ধরনের ব্যতিক্রমধর্মী প্রকাশনার কাজে যারা নিরলসভাবে কাজ করেছেন তাঁদের প্রতি আন্তরিক কৃতজ্ঞতা। পাঠকের প্রতিক্রিয়া আমাদের পরবর্তী প্রকাশনার জন্য আরও ভালো কাজ করার অনুপ্রেরণা যোগাবে।

(এস এম ফেরদৌস আলম)



Director
(Chemical)
BSTI

PREFACE

The 'Laboratory Directory', published by the Bangladesh Standards and Testing Institution (BSTI), is poised to distinctly showcase BSTI's laboratory facilities to business organizations, researchers, development partners, and the contemporary youth. This timely initiative from BSTI aims to vividly present the extensive testing capabilities of all its laboratories to its service recipients.

Since the inception of the Central Testing Laboratory (CTL) in 1956, BSTI has traversed nearly seven decades, continually advancing and expanding its laboratory services. Alongside the formulation of standards to ascertain product quality, BSTI has long been engaged in testing and research activities that bolster industrial development and foster both domestic and international trade in Bangladesh. Additionally, BSTI plays a pivotal role in ensuring the accuracy of product weight and measurements. Keeping pace with the developed world, BSTI now boasts globally accredited laboratories, outfitted with state-of-the-art equipment and operated by skilled, trained personnel. Through the scientific rigor exercised in the laboratories of BSTI's Chemistry, Physics, and Metrology Wings, products are meticulously tested, adhering to both national (BDS) and international standards-an effort encapsulated in this unified Laboratory Directory.'

Within the Directory, mandatory testing parameters and standard limits for each product have been comprehensively detailed. By adhering to these guidelines, even small-scale entrepreneurs can conduct preliminary quality checks on their products before acquiring a BSTI license. As a result, service recipients will be empowered to manufacture quality products. From its inception, BSTI has remained committed to formulating contemporary standards and ensuring product quality, and today, it stands as the most formidable science-based testing laboratory in Bangladesh. With an unyielding resolve, BSTI remains dedicated to propelling the nation's continued development forward.

Gazi Md. Nurul Islam
Director (Chemical)
BSTI

Membership of BSTI with different International Organizations

SL.	Organization Name	Membership Year	Logo
01	International Organization for Standardization (ISO)	1974	
02	Codex Alimentarius Commission (CAC)	1975	
03	Asia Pacific Metrology Programme (APMP)	1977	
04	International Organization of Legal Metrology (OIML)	1988	
05	International Bureau of Weights and Measures (BIPM)	2010	
06	South Asian Regional Standards Organization (SARSO)	2011	
07	Standards and Metrology Institute for Islamic Countries (SMIIC)	2021	
08	International Electrotechnical Commission (IEC)	2021	



**We feel
proud to be
Accredited**

Laboratory Accreditation by BAB



ACCREDITATION CERTIFICATE

Issued under the authority of Bangladesh Accreditation Act, 2006
by Bangladesh Accreditation Board (BAB), Ministry of Industries to

Testing Laboratory

Bangladesh Standards and Testing Institution (BSTI)

Maan Bhaban, 116/A, Tejgaon I/A, Dhaka-1208

This is to certify that this

Testing Laboratory

is accredited in accordance with the international standard

ISO/IEC 17025:2017

in respect of the associated scope, subject to the terms and
conditions governing the relevant conformity assessment
body (CAB) accreditation.

Certificate Number : 01.046.17
Accreditation Date : 31 December 2017
Date of Issuance : 31 July 2024 (2nd Renewal)
Date of Expiration : 30 December 2026



ASPC 31.07.2024
Md. Anwarul Alam
Director General

This certificate must be returned on request; reproduction must follow BAB guidelines. For the specific scopes to which this accreditation applies, please refer to the Directory of CABs at BAB website.

NML Accreditation by BAB



ACCREDITATION CERTIFICATE

Issued under the authority of Bangladesh Accreditation Act, 2006
by Bangladesh Accreditation Board (BAB), Ministry of Industries to

National Metrology Laboratory (NML-BSTI)

BSTI Maan Bhaban, 116-A Tejgaon Industrial Area

Dhaka-1208, Bangladesh

This is to certify that this
Calibration Laboratory
is accredited in accordance with the international standard
ISO/IEC 17025:2017
in respect of the associated scope, subject to the terms and
conditions governing the relevant conformity assessment
body (CAB) accreditation.

Certificate Number : 02.001.18
Accreditation Date : 09 June 2022
Date of Issuance : 30 September 2018
Date of Expiration : 29 September 2024




Md. Monwarul Islam
Director General

This certificate must be returned on request; reproduction must follow BAB guidelines. For the specific scopes to which this accreditation applies, please refer to the Directory of CABs at BAB website.

Laboratory Accreditation by NABL



NABL

**National Accreditation Board for
Testing and Calibration Laboratories**

(An Autonomous Body under Department of Science & Technology, Govt. of India)

CERTIFICATE OF ACCREDITATION

**BANGLADESH STANDARDS AND TESTING INSTITUTION (BSTI),
MICROBIOLOGICAL TESTING LABORATORY**

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

116/A, Tejgaon Industrial Area, Dhaka, Bangladesh

in the discipline of
BIOLOGICAL TESTING

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Certificate Number T-1928

Issue Date 15/06/2015



Valid Until 14/06/2017

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the additional requirements of NABL.

Signed for and on behalf of NABL


N. Venkateswaran
Program Manager


Anil Relia
Director


Prof. Ashutosh Sharma
Chairman

Product Certification Accreditation by NABCB

National Accreditation Board for Certification Bodies



Product Certification ACCREDITATION CERTIFICATE

NABCB hereby confirms that

Bangladesh Standards and Testing Institution

operating from their office at

Maan Bhaban, 116/A

Tejgaon 1/A

Dhaka - 1208, Bangladesh

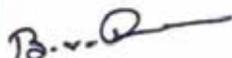
complies to NABCB criteria (ISO Guide 65: 1996)
and is accredited to carry out

Product certification

The scope of accreditation is described in
the accompanying Schedule

Date of initial accreditation : January 9, 2012

Validity of accreditation : January 8, 2015



CEO

PRDT 002

Certificate No.

December 28, 2011

Date

Please contact CEO NABCB for any queries related to the validity of the certificate!

NML-Accreditation by Norwegian Accreditation



ACCREDITATION CERTIFICATE AKKREDITERINGSBEVIS

Bangladesh Standards and Testing Institution (BSTI), National Metrology Laboratory (NML-BSTI)

is accredited on 12.11.2013 by the Norwegian Accreditation *er første gang akkreditert den 12.11.2013 av Norsk Akkreditering* and complies with the requirements of NS-EN ISO/IEC 17025 *og tilfredsstiller kravene i NS-EN ISO/IEC 17025* The scope of the accreditation is specified in the accreditation document, and the accreditation requires regular surveillance. The accreditation is valid until 31.12.2014

*Akkrediteringens omfang framgår av gjeldende akkrediteringsdokument, og akkrediteringen forsettes regelmessig oppfølging.
Akkrediteringen er gyldig til 31.12.2014*

Accreditation number *Akkrediteringsnummer:* **CAL 037**

NORWEGIAN ACCREDITATION *NORSK AKKREDITERING*


Norsk Akkreditering / Norwegian Accreditation

System Certification Accreditation by Norwegian Accreditation



AKKREDITERINGSBEVIS ACCREDITATION CERTIFICATE

Bangladesh Standards and Testing Institution (BSTI), Management System Certification

er den 30.06.2009 akkreditert av Norsk Akkreditering som
sertifiseringsorgan for styringssystemer
og tilfredsstillter kravene i NS-EN ISO/IEC 17021

*is accredited on 30.06.2009 by the Norwegian Accreditation as certification body for management systems
and complies with the requirements of NS-EN ISO/IEC 17021*

Akkrediteringens omfang og varighet fremgår av gjeldende akkrediterings-
dokument, og akkrediteringen forutsetter regelmessig oppfølging.

*The scope and conditions of the accreditation are specified in the accreditation document,
and the accreditation is subject to regular surveillance.*

Akkrediteringsnummer: **MSYS 016**
Accreditation number

NORSK AKKREDITERING
Norwegian Accreditation.

Torleif M. Hauge
Direktør/Director

Signed Agreement/MoU/TCP

SI. No.	Type of Agreement	NSBs/Countries	Title of the MoU/Agreement
1.	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).
2.	Memorandum of Understanding (MoU)	Pakistan Standards and Quality Control Authority (PSQCA), Pakistan	Memorandum of Understanding between Bangladesh Standards and Testing Institution (BSTI) and Pakistan Standards and Quality Control Authority (PSQCA) in the field of Standardization and Quality assurance.
3.	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.
4.	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).
5.	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).
6.	Memorandum of Understanding (MoU)	Bhutan Standards Bureau (BSB), Bhutan	Memorandum of Understanding between Bangladesh Standards and Testing Institution (BSTI) and Bhutan Standards Bureau (BSB).
7.	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.
8.	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.
9.	Memorandum of Understanding (MoU)	ASTM International, USA	Bangladesh Standards and Testing Institution (BSTI), the People's Republic of Bangladesh and the ASTM International, USA.
10.	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.
11.	Memorandum of Understanding (MoU)	DFTQC, Nepal	Memorandum of Understanding between Bangladesh Standards and Testing Institution (BSTI) and DFTQC, Nepal.
12.	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)

N. B: The signing of Memorandum of Understanding (MoU) with Russian Standard Organization (Federal Agency on Technical Regulating and Metrology) is under process.

Mandatory products list of BSTI

Mandatory Products and their parameters of Chemical Testing Wing:

SI No.	Product Name
1.	Canned And Bottled Fruits
2.	Fruit Squash
3.	Fruit Cordial
4.	Fruit Syrup
5.	Fruit Drinks
6.	Fruits and Vegetables Juice
7.	Canned Pineapple
8.	Jams, Jellys and marmaleads
9.	Concentrated Fruit Juice
10.	Sauce (Fruit and vegetable)
11.	Tomato Paste
12.	Tomato Ketchup
13.	Soya Sauce
14.	Fermented Vinegar
15.	Synthetic Vinegar
16.	Chutney
17.	Pickled Fruits & Vegetables
18.	Milk Powder
19.	A blend of skimmed milk and vegetable fat in powdered form
20.	Butter Oil/Ghee
21.	Ice-Cream
22.	Chhana
23.	Lacchi (Yoghurt Drink)
24.	Flavoured Milk
25.	Pasteurized Milk
26.	Sweetened Condensed Milk
27.	UHT Milk
28.	Sweetmeats
29.	Pasteurized Low Fat Milk and Standardized Milk
30.	Infant Formula and formulas for special Medical purposes intended for Infants
31.	Processed Cereal Based Foods for Infants and Young Children
32.	Follow Up Formula
33.	Fermented Milks

SI No.	Product Name
34.	Cream Cheese
35.	Extra hard grating cheese
36.	Cheese
37.	Whey cheeses
38.	Butter
39.	Sweetened Condensed Milk
40.	Whey Powder
41.	Mustard Oil
42.	Banaspati
43.	Fortified Soyabean Oil
44.	Fortified Edible Palm Oil
45.	Fortified edible sunflower oil
46.	Fortified Palm Olein
47.	Fortified Edible Rice Bran Oil
48.	Mayonnaise
49.	Margarine
50.	Virgin Coconut Oil
51.	Olive Oils and Olive Pomace Oils
52.	Suji (Semolina)
53.	Poultry Feed
54.	Fish Feed
55.	Wheat Atta
56.	Maida
57.	Wheat Bran
58.	Bread
59.	Biscuit
60.	Wafer Biscuits
61.	Macaroni, Spaghatti and Vermicelli
62.	Lozenge
63.	Toffee
64.	Bubble Gum / Chewing Gum
65.	Chocolate
66.	Honey
67.	Noodles
68.	Instant Noodles
69.	Chips
70.	Chanachur
71.	Cake

SI No.	Product Name
72.	Decorated Cake
73.	Lachsa Shemai
74.	Muri (Puffed Rice)
75.	Edible Jell
76.	Ice-Lolly
77.	PotatoChips
78.	Corn Flakes
79.	Oats
80.	Malt Based Food
81.	Roti (Flat bread/Tortilla)
82.	Refined Sugar
83.	Sugar
84.	Sucralose, Food Grade
85.	Bread Rolls
86.	Quick Frozen French Fried Potatoes
87.	Pastry
88.	Soluble Coffee Powder
	Roasted and Ground Coffee
	Roasted Coffee- Chicory Powder
89.	Carbonated Beverage
90.	Packaged Drinking Water
91.	Natural Mineral Water
92.	Soft Drink Powder
93.	Artificial Flavoured Drink
94.	Malt Drinks
95.	Black Tea
96.	Instant Tea in solid Form
97.	Green Tea
98.	Turmeric Powder
99.	Chilli Powder
100.	Coriander Powder
101.	Curry Powder
102.	Iodized Salt
103.	Cumin Powder
104.	Plywood Tea Chests
105.	*Safety Matches In Boxes
106.	*Facial Tissue Paper
107.	*Toilet Tissue
108.	Laundry Soap

SI No.	Product Name
109.	Coal Tar Black Paint (Alquatra)
110.	Stamp Pad Ink
111.	Internal Combustion Engine Crankcase Oils (Lubricating Oil)
112.	High Speed Diesel
113.	Unleaded Motor Gasoline-Premium (Octane)
114.	Unleaded Motor Gasoline-Regular (Petrol)
115.	Shoe Polish, Paste
116.	Shoe polish, Liquid
117.	Synthetic Detergent Powder
118.	Household Dish Washing Liquid
119.	Liquid Toilet Cleaner
120.	Floor Liquid Detergents
121.	*Cement Paint
122.	Emulsion Paint
123.	Economy Emulsion Paint (Distemper)
124.	Enamel Synthetic Exterior
125.	Ready Mixed paint, brushing, Finishing, Semi gloss for general purposes
126.	Liquid Hand Wash
127.	Alcohol Based Hand Sanitizers
128.	Water for use in Secondary Batteries
129.	Bitumen & Bituminous Binders-Specifications for paving grade bitumen.
	Bitumen and bituminous binders — Framework for specifying cationic bituminous emulsions
130.	*Bitumen and bituminous binders: Framework specification for polymer modified bitumens.
131.	Mosquito Coil
132.	Melathion 57% (W/V) Emulsifiable Concentrates
133.	Household Insecticide Aerosol
134.	Baking Powder
135.	*Pencils
136.	*Writing and printing papers

SI No.	Product Name
137.	Carbon Paper For Type Writer
138.	*Newsprint
139.	*Ball Point Pen
140.	*Colour Pencils
141.	Sole leather (vegetable Tanned)
142.	*Direct molded Sole (DMS) Boots for General Purpose.
143.	*Containers for Packaging of Mineral Water and Drinking Water
144.	*Pipes and Fittings Made of Unplasticized Polyvinyl Chloride (PVC-U) Used for Potable Water Supply
145.	*Plastics Piping Systems- Polyethylene (PE) pipes and fittings used for water supply
146.	Toilet Soap
147.	Transparent Toilet Soaps
148.	Glycerin Toilet Soap
149.	Liquid Toilet Soap
150.	Toothpaste
151.	Tooth Powder
152.	Shaving Cream
153.	Shaving Foam
154.	After Shave Lotion
155.	Shampoo, surfactant based
156.	Hair Dye, Liquid
157.	Hair Cream
158.	Hair Oils
159.	Coconut Oil
160.	Skin Powder
161.	Skin Cream
162.	Skin Lotion
163.	Nail Polish (Nail Enamel)
164.	Lipstick
165.	Petroleum Jelly
166.	Baby Oil
167.	Baby Toilet Soap
168.	Baby Skin Powder

SI No.	Product Name
169.	Baby Skin Lotion/ Skin Cream for Babies
170.	Baby Shampoo
171.	Natural Mehedi
172.	Synthetic Colour Paste
173.	*Eye Care Products
174.	Kajol
175.	Face wash
176.	Face Pack
177.	Aluminium Sulphate Non-ferric (Pure Grade)
178.	TSP(Granular)
179.	Urea Fertilizer
180.	Di-ammonium Phosphate
181.	*Disposable Diaper
182.	*Nonwoven Wipes
183.	*Reusable Sanitary Napkin
184.	*Conduit Systems for cable management
185.	*Sanitary Napkin
186.	*GP Sheet
187.	*Cement
188.	* Steel for the Reinforcement of Concrete-Part1:Plain Bar & Part 2:Ribbed Bar
189.	*Mild steel (MS) pipe & Galvanized Iron (GI) pipe
190.	Gold and Gold Alloys-Grade and Marking
191.	*Structural Steel and Angels
192.	*Ceramic Tableware
193.	*Tableware made of melamine molding compound
194.	*Table ware made of urea molding Compound
195.	*Glass Table ware
196.	*Sanitary Ware appliances
197.	*Ceramic Tiles

Mandatory Products and their parameters of Physical Testing Wing
Division: Civil, Physical & Mechanical

Sl. No.	Product Name
198.	*Writing & Printing Paper
199.	*Newsprint
200.	*Ball Point Pens
201.	*Pencils
202.	*Color Pencils
203.	*Eye Care Products
204.	*Toilet Tissue Paper
205.	*Facial Tissue Paper
206.	Manual Toothbrush
207.	Leather footwear (Physical)
208.	*Direct moulded Sole (DMS) boots for general purposes
209.	Rotational Moulded Polyethelene Water Storage Tank
210.	Unplasticized Polyvinylchloride (PVC-U) profiles for the fabrication of windows and doors
211.	*Plastics Piping Systems Polyethylene (PE) pipes and fittings used for water supply
212.	*Pipes & Fittings Made of Unplasticized Polyvinyl Chloride (PVC-U) Used for potable water supply
213.	*Containers for packaging of Mineral Water & Drinking Water
214.	*Conduits Systems for Cable management
215.	Adhesive Insulation Tapes
216.	Rubber Flat Transmission belting of textile construction for general use
217.	Rubber Conveyor and Elevator Belt of ply construction for general use
218.	Plywood Tea Chest
219.	Plywood for General Purposes
220.	Common Building Clay Bricks
221.	Hollow clay bricks & blocks
222.	Concrete Paving Blocks
223.	Aggregate Concrete Masonry Units
224.	*Mild steel (MS) pipe & Galvanized Iron (GI) pipe
225.	*Galvanized Sheet & Coil

Sl. No.	Product Name
226.	Continuous Hot-dipAluminium/Zink Coated Steel Sheet
227.	*Steel for the Reinforcement of Concrete- Part1:Plain Bar & Part 2:Ribbed Bar
228.	*Structural Steel and Angle
229.	Extruded Profiles of Aluminium and Aluminium Alloys
230.	*Cement
231.	*Cement Paint
232.	*Bitumen & Bituminous Binders- Polymer Modified Bitumen
233.	Safety Razor Blade
234.	Disposable Razor Blade-Single and twin Blade type
235.	Portable Fire Extinguishers
236.	Fire Resistance Tests-Door and shutter Assemblies
237.	Protective Helmet for two wheeler (Motorcycle, Scooter & Vehicle) Riders
238.	Industrial Safety Helmet
239.	*Safety Matches in Boxes
240.	Gas cylinders — Refillable Welded Steel Cylinders–Test pressure 60 bar and below
	Gas Cylinders- Refillable Seamless Steel Gas Cylinders
	Gas Cylinders- Refillable Seamless Aluminium Alloy Gas Cylinders
241.	Gas Cylinders-Transportable Refillable welded Steel Cylinders for LPG
242.	LPG Composite Cylinder
243.	Gas Mantles
244.	Bicycle Rim
245.	Truck and Bus Tyre and rims (metric series)
246.	Passenger cars Tyre and rims (metric series)

SI No.	Product Name
247.	Motorcycle Tyre and rims (metric series)–Part-2-tyres Dimensions & load-Carrying capacities
	Motorcycle Tyre and rims (metric series)–Part-3-Range of approved rim contours
248.	Domestic Pressure Cookers
249.	Clean Cook stoves and clean cooking Solutions
250.	Vaccum Flask
251.	*Sanitary Ware Appliances

SI No.	Product Name
252.	Sanitary Tapware – Single taps and Combination taps for water supply systems
253.	Sanitary Tapware-Shower Outlets
254.	*Ceramic Tiles
255.	*Ceramic Tableware
256.	*Tableware made of Melamine Moulding Compound
257.	*Tableware made of Urea Moulding Compound
258.	*Glass Tableware
259.	Float Glass

**Mandatory Products and their parameters of Physical Testing Wing,
Division: Electrical & Electronics**

SI No.	Product Name
260.	Bare Aluminium& All Aluminium alloy conductor for overhead power transmission
261.	Aluminium Conductors for overhead power transmission Aluminium Conductors steel reinforced for overhead power transmission.
262.	PVC Insulated Cable
263.	PVC Insulated Flexible Cord
264.	Cross linked polyethylene insulated PVC sheathed cables
265.	Power Cables
266.	Enamelled Copper Conductor (Modified Polyester base/Polyvinyl acetal base)
267.	Porcelain Insulator (Up to 1000V)
268.	Porcelain Insulator (Over 1000V)
269.	Power transformers- Part 1 : General
270.	Three Phase Induction Motor
271.	Cut Out Switches (Main Switch)

SI No.	Product Name
272.	Electrical accessories – Circuit-breakers for over current protection for household and similar installations –Part 1: Circuit-breakers for a.c. operation ((0 to 20A))
273.	Tumbler and other Switches
274.	Socket outlets
275.	Ceiling Roses
276.	Electronic type Fan Regulator
277.	Electric Circulating Fans & Regulators
278.	AC electric ventilating fans and regulators for household and similar purpose
289.	Tungsten Filament Lamp
280.	Double Capped Fluorescent Lamps Performance Requirements
281.	Self Ballasted Lamp
282.	Self-ballasted LED lamps for general lighting services with supply voltages > 50 V – Performance requirements Above 20W

SI No.	Product Name
283.	Ballast for Fluorescent Lamp
284.	Electronic Ballast
285.	Electric irons for household or similar use – Methods for measuring performance
286.	Air Conditioner
287.	Specification for energy-efficiency star rating of household refrigerators.
288.	Refrigerator-freezers and freezers
289.	AC Energy Meter: Induction type(Class 1 & 2)
290.	AC Energy Meter: Static watt-hour meter (Class-1)
291.	Electricity metering – payment systems – Part: 31 Particular requirements – Static payment meters for active energy (Classes 1 and 2)

SI No.	Product Name
292.	Primary Dry cell Battery
293.	Lead Acid Starter Battery (LAS)
294.	Battery charge controllers for photovoltaic system-Performance and functioning
295.	Terrestrial photovoltaic (PV) modules, (Solar Module/Panel)
296.	PV Inverter
297.	Storage Water Heater-Geyser
298.	Lead Acid Traction Battery
299.	Household Micro-Wave Oven
300.	Uninterruptable Power Systems (UPS)
301.	Single Phase Small AC and Universal Electric Motors
302.	Electric kettles for domestic use
303.	Wall Clock (battery operated)
304.	Moulded Case Circuit Breaker (MCCB)Low-voltage switchgear and Controlgear-part 2:Circuit-breakers

**Mandatory Products and their parameters of Physical Testing Wing,
Division: Textile**

SI No.	Product Name
305.	Textile Colour Fastness Rating
306.	Industrial Sewing Thread
307.	Polyester Blended Shirting
308.	Polyester Blended Suiting
309.	Colour Fastness to Steaming
310.	*Sanitary Towels/ Napkins
311.	Cotton Sharee- Power Loom
312.	Handloom Cotton Lungi Cloth
313.	Absorbent Cotton
314.	Umbrella Cloth
315.	Cotton Canvas
316.	Poplin Fabric
317.	Hessian Jute Bags for Rice & Pulse
318.	Hessian Jute Bags for packing 30 KG Food Grains
319.	Textiles -Jute bags for packing
320.	Light Weight Jute Sacking Bags for Packing 50 Kg Food grains

SI No.	Product Name
321.	*Nonwoven Wipes
322.	Silk Fabrics
323.	Textiles -synthetic Mosquito Nets Single Nets
324.	Towels and Towelling
325.	*Disposable Diapers
326.	Specification for Cotton Long Cloth
327.	Specification for Cotton Bed sheets
328.	Specification for JamdaniSharee
329.	*Specification for Reusable Sanitary Napkin
330.	Cotton Sewing Threads

NB: 31 products marked with an asterisk (***) are common products of both Physical Testing Wing and Chemical Testing Wing.



Lab Personnel of BSTI



Lab visited by Director (Chemical)



Lab Personnel of Chemical testing lab



Lab Personnel of Physical testing lab

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Mandatory Products and their parameters of Chemical Testing Wing

Total Products-197

Group: Processed Fruit Products (17)

Sl. No.	Product Name	BDS No.	No. of Test Parameters	Page No.
1.	Canned And Bottled Fruits	BDS503:2006 (1 st Rev)	6	2
2.	Fruit Squash	BDS 506:2002	11	2
3.	Fruit Cordial	BDS 508:2006	12	2-3
4.	Fruit Syrup	BDS 528:2019	16	3
5.	Fruit Drinks	BDS 1581:2015	13	3
6.	Fruits and Vegetables Juice	BDS 513:2013	13	4
7.	Canned Pineapple	BDS CAC 42:2007	8	4
8.	Jams, Jellys and marmaleads	BDS CAC 296:2014	6	4
9.	Concentrated Fruit Juice	BDS 527:2015	12	5
10.	Sauce (Fruit and vegetable)	BDS 512:2017	10	5
11.	Tomato Paste	BDS 517:2015	12	5-6
12.	Tomato Ketchup	BDS 530:2002	13	6
13.	Soya Sauce	BDS 1718:2002	7	6-7
14.	Fermented Vinegar	BDS 523:2015	13	7
15.	Synthetic Vinegar	BDS 1896:2015	9	7
16.	Chutney	BDS 521: 2011	14	8
17.	Pickled Fruits & Vegetables	BDS CAC 260: 2014	7	8

Group: Milk and Milk Products (23)

18.	Milk Powder	BDS 860:2020	14	10
19.	A blend of skimmed milk and vegetable fat in powdered form	BDS CXS-251:2021	8	10
20.	Butter Oil/Ghee	BDS CXS 279:2023	12	11
21.	Ice-Cream	BDS 1083:2006	12	11
22.	Chhana	BDS 1180:2016	7	12
23.	Lacchi (Yoghurt Drink)	BDS 1470:2015	10	12
24.	Flavoured Milk	BDS 1471:2012	8	12
25.	Pasteurized Milk	BDS 1702:2019	16	13
26.	Sweetened /Unsweetened Condensed Filled Milk	BDS 1780:2014(1 st Rev)	12	13
27.	Ultra Heat Temperature(UHT) Treated Milk	BDS 1805:2022	11	14
28.	Sweetmeats	BDS 1811:2008	7	14
29.	Pasteurized Low Fat Milk and Standardized Milk	BDS 1886:2022	13	14
30.	Infant Formula and formulas for special Medical purposes intended for Infants	BDS CAC 72:2008	28	15
31.	Processed Cereal Based Foods for Infants and Young Children	BDS CXS-74:2022,	9	15
32.	Follow Up Formula	BDS CAC 156:2008, Amendment-1, 2009	25	16
33.	Fermented Milks	BDS CAC 243:2015	3	17
34.	Cream Cheese	BDS CAC 275: 2020	5	17
35.	Extra hard grating cheese	BDS CAC 278: 2020	4	17
36.	Cheese	BDS CXS 283:2022	4	17
37.	Whey cheeses	BDS CXS 284:2022	2	17
38.	Butter	BDS CAC A-1:2002	5	17

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39.	Sweetened Condensed Milk	BDS CAC A-4:2022	6	18
40.	Whey Powder	BDS CXS 289:2023	7	18
Group: Oils and Fat Products (11)				
41.	Mustard Oil	BDS 25:2015, Amendment no-1, 2020	17	20
42.	Banaspati	BDS 804 : 2011& Fortification Act 2013	11	20
43.	Fortified Soyabean Oil	BDS 1769:2014(1 st Rev.) Amendment no-1, 2021	18	21
44.	Fortified Edible Palm Oil	BDS 1770:2014 Amendment no-1, 2021	20	21-22
45.	Fortified edible sunflower oil	BDS 1773:2016	17	22
46.	Fortified Palm Olein	BDS 1774:2006, Amendment no-2, 2021	12	23
47.	Fortified Edible Rice Bran Oil	BDS 1886:2014	18	23-24
48.	Mayonnaise	BDS 1503:2011	14	24
49.	Margarine	BDS CAC 32:2008	17	24-25
50.	Virgin Coconut Oil	BDS 2015:2023, Amendment no-1, 2024	17	25
51.	Olive Oils and Olive Pomace Oils	BDS CXS 33:2023	18	26-27
Group: Carbohydrate related products (33)				
52.	Suji (Semolina)	BDS 190:2016(2 nd Rev.)	8	29
53.	Wheat Atta	BDS 380:2007	9	29
54.	Maida	BDS 381:2007	13	30
55.	Bread	BDS 382:2016(3 rd Rev.), Amend-2,2022	11	30
56.	Bread Rolls	BDS 1074:2017 Amendment-1, 2018	7	31
57.	Biscuit	BDS 383:2001	11	31
58.	Wafer Biscuits	BDS 1001:2010	6	32
59.	Macaroni, Spaghetti and Vermicelli	BDS 384:2017	8	32-33
60.	Lozenge	BDS 490:2014	11	33
61.	Toffee	BDS 1000:2001	12	33
62.	Chewing Gum,ball gum and Bubble Gum	BDS 1498:2012	7	34
63.	Chocolate	BDS CAC 87:2008	6	34
64.	Honey	BDS 1039:2022	13	34
65.	Noodles	BDS 1106:2015	9	35
66.	Instant Noodles	BDS 1552:2015	10	35
67.	Chips and Crackers	BDS 1556:2017 Amendment no-1, 2019	13	35-36
68.	Chanachur	BDS 1564:2016	12	36
69.	Cake	BDS 1574:2021	10	36-37
70.	Decorated Cake	BDS 2008:2022	12	37
71.	Lachsa Shemai	BDS 1620:2020	11	37-38
72.	Muri (Puffed Rice)	BDS 1796:2008	18	38
73.	Edible Jell	BDS 1801: 2015(2 nd Rev.) Amendment-1, 2018	14	39

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75.	Potato Chips	BDS 1927:2017, Amendment-1, 2021	15	39-40
76.	Corn Flakes	BDS 1957:2018	19	40-41
77.	Oats	BDS 1960:2019	17	41
78.	Malt Based Food	BDS 1995: 2022	16	42
79.	Roti (Flat bread/Tortilla)	BDS 1998:2022	13	42
80.	Refined Sugar	BDS138:2006(2 nd Rev.) Amendment-1, 2008	9	43
81.	Sugar	BDS CXS 212:2022	7	43
82.	Sucralose, Food Grade	BDS 1933:2017	7	43
83.	Quick Frozen French Fried Potatoes	BDS 1997:2022	8	44
84.	Pastry	BDS 1996:2022	9	44
Group: Feed Products (3)				
85.	Fish Feed	BDS 1915:2022	14	46
86.	Poultry Feed	BDS 233:2019	14	46
87.	Wheat Bran	BDS 997:2006	7	46
Group: Water and Beverages Products (12)				
88.	Soluble Coffee Powder	BDS 763: 2016, Amendment-1, 2020	8	48
89.	Roasted and Ground Coffee	BDS 805: 2016	10	48
90.	Roasted Coffee- Chicory Powder	BDS CXS-251:2021	8	49
91.	Carbonated Beverage	BDS 1123:2022	15	49
92.	Packaged Drinking Water	BDS 1240:2021	39	50
93.	Natural Mineral Water	BDS 1414:2021	36	51
94.	Soft Drink Powder	BDS 1586: 2007	15	52
95.	Artificial Flavoured Drink	BDS 1877:2014	14	52
96.	Malt Drinks	BDS 1994:2021	13	53
97.	Black Tea	BDS ISO 3720: 2017	8	53
	Instant Tea in solid Form	BDS ISO 6079:2015	3	53
	Green Tea	BDS ISO 11287:2012	8	54
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98.	Turmeric Powder	BDS 991:2020	10	56
99.	Chilli Powder	BDS 1017:2020	10	56
100.	Coriander Powder	BDS 1084:2015, Amend-2020	7	57
101.	Curry Powder	BDS 1205:2013, Amend 1:2020	12	57
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105.	Safety Matches In Boxes	BDS 1040:2006	7	61
106.	Facial Tissue Paper	BDS 1723:2022	07	61
107.	Toilet Tissue	BDS 1745:2022	07	61
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109.	High Speed Diesel	BDS 344:2020	14	63
110.	Unleaded Motor Gasoline-Premium	BDS 346:2010 (Reaffirmed)	08	64
111.	Unleaded Motor Gasoline-Regular	BDS 347:2019	07	64
112.	Laundry Soap	BDS 12:2019 (3 rd Rev.)	07	64
113.	Synthetic Detergent Powder	BDS1445:2019	11	65
114.	Liquid Dish Wash	BDS 1554: 2021 (1 st Rev.)	07	65
115.	Liquid Toilet Cleaner	BDS 1707: 2021	08	66-67
116.	Liquid Floor Cleaner	BDS 1859:2021(1 st Rev.)	09	68
117.	Cement Paint	BDS 1706:2015	08	68
118.	Emulsion Paint	BDS 1827:2018	08	68
119.	Economy Emulsion Paint (Distemper)	BDS 1833:2018	05	69
120.	Enamel Synthetic Exterior: a) Undercoating & b)Finishing	BDS1423:2018	04	69
121.	Ready Mixed paint, brushing, Finishing, Semi gloss for general purposes	BDS 402 : 1989 With amendment 1, 2 : 2007	18	69
122.	Liquid Hand Wash	BDS 1973: 2019	04	70
123.	Alcohol Based Hand Sanitizers	BDS 1980: 2020	11	70
124.	Water for use in Secondary Batteries	BDS 834:2007 (First Rev.)	07	70
125.	Bitumen & Bituminous Binders-Specifications for paving grade bitumen.	BDS EN12591:2009	07	71
	Bitumen and bituminous binders — Framework for specifying cationic bituminous emulsions	BDS EN 13808:2009	18	71
126.	Bitumen and bituminous binders: Framework specification for polymer modified bitumens.	BDS EN 14023:2009	04	71
127.	Mosquito Coil	BDS 1089:2018	04	72
128.	Melathion 57% (W/V) Emulsifiable Concentrates	BDS 1179:2001	09	72
129.	Household Insecticide Aerosol	BDS 1585:2023	04	72
130.	Baking Powder	BDS 657:2015	04	73
131.	Coal Tar Black Paint (Alquatra)	BDS 69(Pt-2):2006	09	73
132.	Stamp Pad Ink	BDS 90/2011	06	73
133.	Shoe Polish, Paste	BDS1006:1981, amend.1:2006	08	74
134.	Shoe polish, Liquid	BDS 1589:2023(1 st Rev.)	06	74
Group: Stationery Products (6)				
135.	Pencils	BDS 330:2006	02	76
136.	Writing and printing papers	BDS 405:2012	03	76

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138.	Newsprint	BDS 485:2012	03	76
139.	Ball Point Pen	BDS1384:2022	06	76
140.	Colour Pencils	BDS 2020:2023	09	77
Group: Leather and leather Products (2)				
141.	Sole leather (vegetable Tanned)	BDS 340:2012	11	79
142.	Direct molded Sole (DMS) Boots for General Purpose.	BDS 1555:2023(1 st Rev.)	12	79
Group: Plastics and plastic products (3)				
143.	Containers for Packaging of Mineral Water and Drinking Water	BDS 1958:2019	10	81
144.	Pipes and Fittings Made of Unplasticized Polyvinyl Chloride (PVC-U) Used for Potable Water Supply	BDS 1878:2015	03	81
145.	Plastics Piping Systems- Polyethylene (PE) pipes and fittings used for water supply	BDS ISO 4427-1, 2, 3: 2010	06	81
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146.	Toilet Soap	BDS 13:2021(4 th Rev.)	07	83
147.	Transparent Toilet Soaps	BDS 1908:2016	08	83
148.	Glycerin Toilet Soap	BDS 1536:2016	12	83-84
149.	Liquid Toilet Soap	BDS 1740:2004	07	84
150.	Toothpaste	BDS1216:2012	21	84-85
151.	Tooth Powder	BDS1370:2017	10	85
152.	Shaving Cream	BDS1241:2017	12	86
153.	Shaving Foam	BDS 1986:2021	09	86
154.	After Shave Lotion	BDS 1524:2006	04	87
155.	Shampoo, surfactant based	BDS 1269:2022	13	87
156.	Hair Dye, Liquid	BDS1338:2023(1 st Rev.)	08	88
157.	Hair Cream	BDS1420: 2024(1 st Rev.)	07	88
158.	Hair Oils	BDS1339:2018	04	88
159.	Coconut Oil (Refined)	BDS 99:2007	19	88-89
160.	Skin Powder	BDS1337:2024(2 nd Rev.)	10	89
161.	Skin Cream	BDS1382:2024(4 th Rev.)	12	89
162.	Skin Lotion	BDS 1923:2019	10	90
163.	Nail Polish (Nail Enamel)	BDS1421:1992, Reaff.2021	07	90
164.	Lipstick	BDS1424:2024(1 st Rev.)	08	90
165.	Petroleum Jelly	BDS 1597:2023	15	91
166.	Baby Oil	BDS 1766:2019	11	91
167.	Baby Toilet Soap	BDS 1798:2019	16	92
168.	Baby Skin Powder	BDS 1844:2011	08	92
169.	Baby Skin Lotion/ Skin Cream for Babies	BDS 1858:2019	09	93
170.	Baby Shampoo	BDS 1884:2014	09	93

Sl. No.	Product Name	BDS No.	No. of Test Parameters	Page No.
171.	Natural Henna/Mehedi (Powder and Paste)	BDS 1966: 2019	14	93-94
172.	Synthetic Colour Paste	BDS 1967: 2019	12	94
173.	Eye Care Products	BDS 1987:2021	11	94-95
174.	Kajol	BDS 1949:2018	09	95
175.	Face wash	BDS 2000:2022	14	95
176.	Face Pack	BDS 1977: 2020	10	96
Group: Fertilizer products (4)				
177.	Aluminium Sulphate, Non-Ferric	BDS 149:2014 (2 nd Rev.)	11	98
178.	Triple Super Phosphate (T.S.P)	BDS 216: 1991 (1 st Rev.), Amendment No 1,2: 2007	06	98
179.	Urea Fertilizer	BDS 217:2011 (2 nd Rev.)	05	98
180.	Di-ammonium Phosphate	BDS 1628: 2000	05	99
Group: Textiles and textile products (5)				
181.	Disposable Diaper	BDS 2006:2022	01	101
182.	Nonwoven Wipes	BDS 2017:2023	01	101
183.	Reusable Sanitary Napkin	BDS 2024:2024	01	101
184.	PVC Pipe for Electrical Conduits	BDS EN61386-21;2010	01	101
185.	Sanitary Napkin	BDS 1261:2019	01	101
Group: Gold & Building Materials (6)				
186.	GP Sheet	BDS1122:1987, Reaff.2021	03	103
187.	Cement	BDS EN 197-1:2003,Reaff.2010	04	103
188.	Steel for the Reinforcement of Concrete- Part1:Plain Bar & Part 2:Ribbed Bar	BDS ISO 6935-2:2021	05	103
189.	Structural Steel and Angels	BDS ISO 630:1,2,3	05	103
190.	Mild steel (MS) pipe & Galvanized Iron (GI) pipe	BDS 1031: 2006	05	103
191.	Gold and Gold Alloys-Grade and Marking	BDS 1515: 2021 (1st Revision)	01	104
Group: Glass, Ceramic and melamine products (6)				
192.	Ceramic Tableware	BDS 485:2000 (2 nd Rev.) amendment 1,2,3:2006	05	106
193.	Tableware made of melamine molding compound	BDS1425:2009	07	106- 107
194.	Table ware made of urea molding Compound	BDS 1825:2011	05	107
195.	Glass Table ware	BDS 1874:2013	03	107
196.	Sanitary Ware appliances	BDS1162:2014	03	108
197.	Ceramic Tiles	BDS ISO 13006	04	108
Total products: 197 (One hundred and ninety seven)		Total parameters:1945 (One thousand nine hundred forty five)		

Mandatory Products and No. of Test parameters of Physical Testing Wing

Civil, Physical & Mechanical Division

Group: Stationery Products (9)

Sl. No.	Product Name	BDS No.	No. of Test Parameters	Page No.
1.	Writing & Printing Paper	BDS 405:2012 (2 nd Revision)	13	110
2.	Newsprint	BDS 845:2012(2 nd Revision)	18	110
3.	Ball Point Pens	BDS 1384:2002(1 st Revision)	12	111
4.	Pencils	BDS 330:1993(1 st Revision) Ammend-1:2006	6	111
5.	Color Pencils	BDS 2020:2023	8	112
6.	Eye Care Products	BDS 1987:2021	5	112
7.	Toilet Tissue Paper	BDS 1745:2022(1 st Revision)	10	112
8.	Facial Tissue Paper	BDS 1723:2022 (1 st Revision)	12	113
9.	Manual Toothbrush	BDS ISO 20126:2023	5	113

Group: Leather and Synthetic Products (2)

Sl. No.	Product Name	BDS No.	No. of Test Parameters	Page No.
10.	Leather footwear (Physical)	BDS 1944:2021(1 st Revision)	57	115-116
11.	Direct Moulded Sole (DMS) boots for general purposes	BDS 1555:1997	22	116

Group: Plastic & Rubber Products (9)

Sl. No	Product Name	BDS No.	No. of Test Parameters	Page No.
12.	Rotational Moulded Polyethelene Water Storage Tank	BDS 1699:2002	8	118
13.	Unplasticized Polyvinylchloride (PVC-U) profiles for the fabrication of windows and doors	BDS EN 12608:2008	8	118
14.	Plastics Piping Systems- Polyethylene (PE) pipes and fittings used for water supply	BDS ISO 4427-1, 2, 3: 2010	8	118
15.	Pipes & Fittings Made of Unplasticized Polyvinyl Chloride (PVC-U) Used for potable water supply	BDS 1878:2015	10	118-119
16.	Containers for packaging of Mineral Water & Drinking Water	BDS 1958:2019	7	119
17.	Conduits Systems for Cable management	BDS EN 61386-21:2010	4	119
18.	Adhesive Insulation Tapes	BDS 1019	5	119
19.	Rubber Flat Transmission belting of textile construction for general use	BDS 1199:2005	9	119
20.	Rubber Conveyor and Elevator Belt of ply construction for general use	BDS 1200:2005	16	120

Group: Wood Products (2)

Sl. No.	Product Name	BDS No.	No. of Test Parameters	Page No.
21.	Plywood Tea Chest	BDS 18:2006	3	122
22.	Plywood for General Purposes	BDS 799: 2006	8	122

Group: Building & Construction Materials Products (13)

Sl. No.	Product Name	BDS No.	No. of Test Parameters	Page No.
23.	Common Building Clay Bricks	BDS 208:2022	7	124
24.	Hollow clay bricks & blocks	BDS 1803:2008	9	124
25.	Concrete Paving Blocks	BDS EN 1338:2009	10	124
26.	Aggregate Concrete Masonry Units	BDS EN 771-3:2003	14	125
27.	Mild steel (MS) pipe & Galvanized Iron (GI) pipe	BDS 1031: 2006	8	125
28.	Galvanized Sheet & Coil	BDS 1122 : 2021	11	125
29.	Continuous Hot-dip Aluminium/Zink Coated Steel Sheet	BDS ISO 9364:2021	5	126
30.	Steel for the Reinforcement of Concrete (Plane bar & Ribbed bar)	BDS ISO 6935:2021	6	126
31.	Structural Steel and Angle	BDS ISO 630-1,2,3:2013	4	126
32.	Extruded Profiles of Aluminium and Aluminium Alloys	BDS EN 755-9:2010	5	126
33.	Cement	BDS EN 197:2010	4	126
34.	Cement Paint	BDS 1706:2015	1	126
35.	Bitumen & Bituminous Binders-Polymer Modified Bitumen	BDS EN 14023:2009	3	126

Group: Mechanical & Safety Products (7)

Sl. No.	Product Name	BDS No.	No. of Test Parameters	Page No.
36.	Safety Razor Blade	BDS 219 : 2022	11	128
37.	Disposable Razor Blade-Single and twin Blade type	BDS 1838:2022	4	128
38.	Portable Fire Extinguishers	BDS ISO 7165:2022	10	128
39.	Fire Resistance Tests-Door and shutter Assemblies	BDS ISO 3008-1:2023	3	128
40.	Protective Helmet for two wheeler (Motorcycle, Scooter & Vehicle) Riders	BDS 1136: 2022	24	128-130
41.	Industrial Safety Helmet	BDS 1265:1990	11	130
42.	Safety Matches in Boxes	BDS 1040:2006	13	131

Group: Gas Cylinders Products (6)

Sl. No.	Product Name	BDS No.	No. of Test Parameters	Page No.
43.	Gas cylinders–Refillable Welded Steel Cylinders–Test pressure 60 bar and below	BDS ISO 4706:2008	11	133
	Gas Cylinders- Refillable Seamless Steel Gas Cylinders	BDS ISO 9809-1,2,3:2008	13	133
	Gas Cylinders- Refillable Seamless Aluminium Alloy Gas Cylinders	BDS ISO 7866:2008	13	133-134
44.	Gas Cylinders-Transportable Refillable welded Steel Cylinders for LPG	BDS ISO 22991:2023	13	134
45.	LPG Composite Cylinder	BDS ISO 11119-3:2018	23	135
46.	Gas Mantles	BDS 1197:1988 (Reaffirmed 2006)	6	135

Group: Tyre-Rim Products (7)

Sl. No.	Product Name	BDS No.	No. of Test Parameters	Page No.
47.	Bicycle Rim	BDS986:2006	5	137
48.	Truck and Bus Tyre and rims (metric series), Part-1- Tyre	BDS ISO 4209-1:2012	11	137
	Truck and Bus Tyre and rims (metric series) Part-2- rims	BDS ISO 4209-2:2012	10	137
49.	Passenger cars Tyre and rims (metric series) Part-1- Tyre	BDS ISO 4000-1:2012	11	137
	Passenger cars Tyre and rims (metric series) Part-2- rims	BDS ISO 4000-2:2012	10	137
50.	Motorcycle Tyre and rims (metric series)–Part-2-tyres Dimensions & load-Carrying capacities	BDS ISO 5751-2:2012	9	138
	Motorcycle Tyre and rims (metric series)–Part-3-Range of approved rim contours	BDS ISO 5751-3:2012	Range of approved rim contour	138

Group: Household Products (3)

Sl. No.	Product Name	BDS No.	No. of Test Parameters	Page No.
51.	Domestic Pressure Cookers	BDS 1752:2006	12	140
52.	Clean Cook stoves and clean cooking Solutions	BDS ISO 19867-1:2019	3	140
53.	Vaccum Flask	BDS 576:1966	3	140

Group: Sanitary Products (3)

Sl. No.	Product Name	BDS No.	No. of Test Parameters	Page No.
54.	Sanitary Ware Appliances	BDS 1162:2014	8	142
55.	Sanitary Tapware – Single taps and Combination taps for water supply systems of type 1 and type 2	BDS EN 200:2020	8	142
56.	Sanitary Tapware-Shower Outlets	BDS EN 1112	4	142

Group: Glass, Ceramic & Melamine Products (6)

Sl. No.	Product Name	BDS No.	No. of Test Parameters	Page No.
57.	Ceramic Tiles	BDS ISO13006:2021	7	144
58.	Ceramic Tableware	BDS 485:2006	9	144
59.	Tableware made of Melamine Moulding Compound	BDS 1425: 2009	11	144
60.	Tableware made of Urea Moulding Compound	BDS 1825: 2011	11	145
61.	Glass Tableware	BDS 1874:2013	5	145
62.	Float Glass	BDS 1832:2010	9	145
Total Products: 62 (Sixty Two)		Total Parameters: 646 (Six Hundred Forty Six)		

Mandatory Products & Their Parameters of Physical Testing Wing

Electrical & Electronics Division

Sl. No.	Product Name	Standards	No of Test Parameters	Page No
1	Bare Aluminium& All Aluminium alloy conductor for overhead power transmission	BDS 1036: 2006	12	147
2	Aluminium Conductors for overhead power transmission Aluminium Conductors steel reinforced for overhead power transmission.	BDS 1037: 2003	11	147
3 (A).	PVC Insulated Cable- Single core	BDS 900: 2010	9	148
3 (B).	PVC Insulated Cable b) Twin core	BDS 900: 2010	9	148
3 (C).	PVC Insulated Cable c) Multi core	BDS 900: 2010	9	148
4 (A).	PVC Insulated Flexible Cord Single core	BDS 899 (Part 1-6): 2000	11	148
4 (B).	PVC Insulated Flexible Cord b) Twin core	BDS 899 (Part 1-6): 2000	11	149
4 (C).	PVC Insulated Flexible Cord c) Multi core	BDS 899 (Part 1-6): 2000	11	149
5	Cross linked polyethylene insulated PVC sheathed cables	BDS 1521 (Part 1-2):1995	15	149
6	Power Cables	BDS IEC 60502 (Part 1,2,4): 2018	11(Eleven)	150
7	Enamelled Copper Conductor (Modified Polyester base/Polyvinyl acetal base)	BDS 1034 (Part 1-5):2006	9(Nine)	150
8	Porcelain Insulator (Up to 1000V)	BDS 1543: 2006	5(Five)	151
9	Porcelain Insulator (Over 1000V)	BDS IEC 60383 (Part 1): 2006	5(Five)	151
10	Power transformers- Part 1 : General	BDS IEC 60076 (Part 1): 2016	11(Eleven)	151
11	Three Phase Induction Motor	BDS 1139: 1986 (Amd 1:2006)	8(Eight)	151
12	Cut Out Switches (Main Switch)	BDS 1395: 1993 (Re Afrmd 2005)	5(Five)	152
13(A).	Electrical accessories – Circuit-breakers for over current protection for household and similar installations –Part 1: Circuit-breakers for a.c. operation ((0 to 20A))	BDS IEC 62898 (Part 1): 2016	7(Seven)	152
13(B).	Electrical accessories – Circuit-breakers for over current protection for household and similar installations –Part 1: Circuit-breakers for a.c. operation (Above 20A)	BDS IEC 62898 (Part 1): 2016	7(Seven)	153
14	Tumbler and other Switches	BDS IEC 60669 (Part 1): 2018	7(Seven)	153

Sl. No.	Product Name	Standards	No of Test Parameters	Page No
15(A).	Two pin Socket outlets	BDS IEC 60884 (Part 1-2): 2016	10(Ten)	153-154
15(B).	Two pin plug	BDS IEC 60884 (Part 1-2): 2016	10(Ten)	154
16(A).	Three pin Socket outlets	BDS IEC 60884 (Part 1-2): 2016	10(Ten)	154
16(B).	Three pin plug	BDS IEC 60884 (Part 1-2): 2016	10(Ten)	155
17	Ceiling Roses	BDS 116: 2006	10(Ten)	155
18	Electronic type Fan Regulator	BDS 1323: 1991	7(Seven)	155
19(A).	Electric Circulating Fans & Regulators (Ceiling Fan)	BDS 818: 2006	9(Nine)	156
19(B).	Electric Circulating Fans & Regulators (Padestal Fan, Table Fan)	BDS 818: 2006	11(Eleven)	156
20	AC electric ventilating fans and regulators for household and similar purpose	BDS IEC 60665:2020	8(Eight)	156
21(A).	Tungsten Filament Lamp (0-25W)	BDS 17: 2006	10(Ten)	157
21(B).	Tungsten Filament Lamp (40-75W)	BDS 17: 2006	10(Ten)	157
21(C).	Tungsten Filament Lamp (100W & above)	BDS 17: 2006	10(Ten)	157
22(A).	Double Capped Fluorescent Lamps Performance Requirements (18W)	BDS IEC 60081: 2006	12(Twelve)	158
22(B).	Double Capped Fluorescent Lamps Performance Requirements (36W)	BDS IEC 60081: 2006	12(Twelve)	158
23(A).	Self Ballasted Lamp Up to 20W	BDS 1734: 2003	11(Eleven)	159
23(B).	Self Ballasted Lamp Above 20W	BDS 1734: 2003	11(Eleven)	159
24(A).	Self-ballasted LED lamps for general lighting services with supply voltages > 50 V – Performance requirements Up to 20W	BDS IEC 62612 : 2015	12(Twelve)	160
24(B).	Self-ballasted LED lamps for general lighting services with supply voltages >50 V – Performance requirements Above 20W	BDS IEC 62612 : 2015	12(Twelve)	160
25	Ballast for Fluorescent Lamp	BDS IEC 60921: 2005	5(Five)	160
26	Electronic Ballast	BDS IEC 60929: 2005	6(Six)	161
27	Electric irons for household or similar use – Methods for measuring performance	BDS IEC 60311: 2018	8(Eight)	161
28	Air Conditioner (Mandatory)	BDS 1852:2022	7(Seven)	161
29	Specification for energy-efficiency star rating of household refrigerators.	BDS 1849:2012	9(Nine)	161
	Refrigerator-freezers and freezers	BDS 1850:2012		
30	AC Energy Meter: Induction type(Class 1 & 2)	BDS IEC 62053 (Part 11): 2013	6(Six)	162

Sl. No.	Product Name	Standards	No of Test Parameters	Page No
31	AC Energy Meter: Static watt-hour meter (Class-1)	BDS IEC 62053 (Part 21): 2013	6(Six)	162
32	Electricity metering – payment systems – Part: 31 Particular requirements – Static payment meters for active energy (Classes 1 and 2)	BDS IEC 62055 (Part 31): 2017	6(Six)	162
33.	Primary Dry cell Battery	BDS IEC 60086 (Part 1-5): 2016	4(Four)	162
34.	Primary Dry cell Battery(Watch Batteries)	BDS IEC 60086 (Part 1-5): 2016	3(Three)	162
35	Lead Acid Starter Battery (LAS)	BDS 206 (Part 1-3): 2002	7(Seven)	162
36	Battery charge controllers for photovoltaic system-Performance and functioning	BDS IEC 62509:2016	11(Eleven)	162
37	Terrestrial photovoltaic (PV) modules, (Solar Module/Panel)	BDS IEC 61215-1,2:2019, BDS IEC 61730-1,2:2019	11(Eleven)	163
38	PV Inverter	BDS IEC 62109(Part 1-2): 2016 BDS IEC 61727: 2020,BDS IEC 62116: 2016	10(Ten)	163
39	Storage Water Heater-Geyser	BDS IEC 60335-2-21	5(Five)	163
40	Lead Acid Traction Battery	BDS IEC 60254-1	6(Six)	163
41	Household Micro-Wave Oven	BDS IEC 60705	6(Six)	163
42	Uninterruptable Power Systems (UPS)	BDS IEC 62040-3	8(Eight)	164
43	Single Phage Small AC and Universal Electric Motors	BDS 1367:1992	6(Six)	164
44	MCCB Low-Voltage Switchgear and Controlgear-Part 2: Circuit-Breakers	BDS IEC 60947-2	10(Ten)	164
45	Wall Clocks (battery operated)	BDS 1722	03(Three)	164
46	Electric Kettles for Domestic Use	BDS 253	09(Nine)	164
	Total Products: 46 (Forty Six)	Total Parameters: 519 (Five Hundred Nineteen)		

Mandatory Textile Products and Their Parameters of Physical Testing Wing Textile Division

Sl. No.	Product Name	Standard	No. of Test Parameters	Page No.
1 (i)	Textile Colour Fastness Rating (Innerwear Fabrics) (Cotton-Woven)	BDS 1758:2022	4	166
1 (ii)	Textile Colour Fastness Rating (Innerwear Fabrics) (Woolen, Silk, Knitted)	BDS 1758:2022	4	166
1 (iii)	Textile Colour Fastness Rating (Innerwear Fabrics) (Manmade and Blended)	BDS 1758:2022	4	167
1 (iv)	Textile Colour Fastness Rating (Outerwear Fabrics) (Cotton-Woven)	BDS 1758:2022	5	167-168

Sl. No.	Product Name	Standard	No. of Test Parameters	Page No.
1 (v)	Textile Colour Fastness Rating (Outerwear Fabrics) (Woolen, Silk, Knitted)	BDS 1758:2022	5	168
1 (vi)	Textile Colour Fastness Rating (Outerwear Fabrics) (Manmade and Blended)	BDS 1758:2022	6	169
1 (vii)	Textile Colour Fastness Rating (Swimwear fabrics)	BDS 1758:2022	5	170
1 (viii)	Textile Colour Fastness Rating (Toweling Fabrics) (Cotton-Woven)	BDS 1758:2022	4	171
1 (ix)	Textile Colour Fastness Rating (Toweling Fabrics) (Manmade and Blended)	BDS 1758:2022	4	171-172
1 (x)	Textile Colour Fastness Rating (Rainwear and water proof fabrics)	BDS 1758:2022	3	172
1 (xi)	Textile Colour Fastness Rating (Curtain and drapery fabrics)	BDS 1758:2022	4	172
1 (xii)	Textile Colour Fastness Rating (Upholstery fabric and ticking)	BDS 1758:2022	5	173
1 (xiii)	Textile Colour Fastness Rating (Blankets, shawls and lohis)	BDS 1758:2022	5	174
1 (xiv)	Textile Colour Fastness Rating (Overcoats, overalls, Jackets dungaree, flannels and blazer) (Cotton-Woven)	BDS 1758:2022	5	175
1 (xv)	Textile Colour Fastness Rating (Overcoats, overalls, Jackets dungaree, flannels and blazer) (Woolen, Silk, Knitted)	BDS 1758:2022	5	176
1 (xvi)	Textile Colour Fastness Rating (Overcoats, overalls, Jackets dungaree, flannels and blazer) (Manmade and Blended)	BDS 1758:2022	5	177
1 (xvii)	Textile Colour Fastness Rating (Mosquito netting) (Woolen, Silk, Knitted)	BDS 1758:2022	2	178
1 (xviii)	Textile Colour Fastness Rating (Bed-Linen Fabrics) (Cotton-Woven)	BDS 1758:2022	4	178
1(xix) A	Textile Colour Fastness Rating (Bed-Linen Fabrics) (Woolen, Silk, Knitted)	BDS 1758:2022	3	179
1(xix) B	Textile Colour Fastness Rating (Bed-Linen Fabrics) (Manmade and Blended)	BDS 1758:2022	4	179
1 (xx)	Textile Colour Fastness Rating (Yarn) (Cotton)	BDS 1758:2022	5	180
1 (xxi)	Textile Colour Fastness Rating (Yarn) (Manmade and Blended)	BDS 1758:2022	5	181
1 (xxii)	Textile Colour Fastness Rating (Yarn) (woollen, silk and all materials except- Cotton, Manmade and Blended)	BDS 1758:2022	5	182
1 (xxiii)	Textile Colour Fastness Rating (Sewing threads and embroidery yarn) (Cotton)	BDS 1758:2022	5	183

Sl. No.	Product Name	Standard	No. of Test Parameters	Page No.
1 (xxiv)	Textile Colour Fastness Rating (Sewing threads and embroidery yarn) (Manmade and Blended)	BDS 1758:2022	5	184
1 (xxv)	Textile Colour Fastness Rating (Sewing threads and embroidery yarn) (woollen, silk and all materials except- Cotton, Manmade and Blended)	BDS 1758:2022	5	185
1 (xxvi)	Textile Colour Fastness Rating (Bunting cloth)	BDS 1758:2022	2	186
1 (xxvii)	Textile Colour Fastness Rating (Buckram cloth)	BDS 1758:2022	1	186
1 (xxviii)	Textile Colour Fastness Rating (Holland cloth)	BDS 1758:2022	2	186
2 (i)	Industrial Sewing Thread (Continuous Filament Polyester Threads)-Coloured	BDS 1221 : 2011	12	186-187
2 (ii)	Industrial Sewing Thread (Continuous Filament Polyester Threads)-White	BDS 1221 : 2011	7	188
2 (iii)	Industrial Sewing Thread (Staple Fibre Polyester Threads)-Coloured	BDS 1221 : 2011	12	188-189
2 (iv)	Industrial Sewing Thread (Staple Fibre Polyester Threads)-White	BDS 1221 : 2011	7	189
2 (v)	Industrial Sewing Thread (Air-Jet Textured Polyester Threads)-Coloured	BDS 1221 : 2011	12	190
2 (vi)	Industrial Sewing Thread (Air-Jet Textured Polyester Threads)-White	BDS 1221 : 2011	7	191
2 (vii)	Industrial Sewing Thread (False Twist Textured Polyester Threads)-Coloured	BDS 1221 : 2011	11	191
2 (viii)	Industrial Sewing Thread (False Twist Textured Polyester Threads)-White	BDS 1221 : 2011	6	191
2 (ix)	Industrial Sewing Thread (Polyester-Cotton Corespun Threads)-Coloured	BDS 1221 : 2011	13	192-193
2 (x)	Industrial Sewing Thread (Polyester-Cotton Corespun Threads)-White	BDS 1221 : 2011	8	193
2 (xi)	Industrial Sewing Thread (Polyester-Polyester Corespun Threads)-Coloured	BDS 1221 : 2011	12	193-194
2 (xii)	Industrial Sewing Thread (Polyester-Polyester Corespun Threads)-White	BDS 1221 : 2011	7	194-195
2 (xiii)	Industrial Sewing Thread (Continuous Filament Nylon / Polyamide 6.6 Threads)-Coloured	BDS 1221 : 2011	12	195-196
2 (xiv)	Industrial Sewing Thread (Continuous Filament Nylon / Polyamide 6.6 Threads)-White	BDS 1221 : 2011	7	196
2 (xv)	Industrial Sewing Thread (False Twist Textured Nylon / Polyamide 6.6 Threads)-Coloured	BDS 1221 : 2011	12	196-197

Sl. No.	Product Name	Standard	No. of Test Parameters	Page No.
2 (xvi)	Industrial Sewing Thread (False Twist Textured Nylon / Polyamide 6.6 Threads)-White	BDS 1221 : 2011	7	197
2 (xvii)	Industrial Sewing Thread (Continuous Filament Para-Aramid Threads)-Coloured	BDS 1221 : 2011	11	198
2 (xviii)	Industrial Sewing Thread (Continuous Filament Para-Aramid Threads)-White	BDS 1221 : 2011	6	199
2 (xix)	Industrial Sewing Thread (Staple Fibre Para-Aramid Threads)-Coloured	BDS 1221 : 2011	11	199-200
2 (xx)	Industrial Sewing Thread (Staple Fibre Para-Aramid Threads)-White	BDS 1221 : 2011	6	200
2 (xxi)	Industrial Sewing Thread (Continuous Filament Meta-Aramid Threads)-Coloured	BDS 1221 : 2011	11	200-201
2 (xxii)	Industrial Sewing Thread (Continuous Filament Meta-Aramid Threads)-White	BDS 1221 : 2011	6	201
2 (xxiii)	Industrial Sewing Thread (Staple Fibre Meta-Aramid Threads)-Coloured	BDS 1221 : 2011	11	202
2 (xxiv)	Industrial Sewing Thread (Staple Fibre Meta-Aramid Threads)-White	BDS 1221 : 2011	6	203
2 (xxv)	Industrial Sewing Thread (Continuous Filament Polyester Braids)-Coloured	BDS 1221 : 2011	12	203-204
2 (xxvi)	Industrial Sewing Thread (Continuous Filament Polyester Braids)-White	BDS 1221 : 2011	7	204
2 (xxvii)	Industrial Sewing Thread (Staple Fibre Polyester Braids)-Coloured	BDS 1221 : 2011	12	205-206
2 (xxviii)	Industrial Sewing Thread (Staple Fibre Polyester Braids)-White	BDS 1221 : 2011	7	206
2 (xxix)	Industrial Sewing Thread (Continuous Filament Nylon / Polyamide 6.6 Braids)-Coloured	BDS 1221 : 2011	12	206-207
2 (xxx)	Industrial Sewing Thread (Continuous Filament Nylon / Polyamide 6.6 Braids)-White	BDS 1221 : 2011	7	208
3 (i)	Polyester Blended Shirting- Coloured (Machine Wash)	BDS 1148:2021	12	208-209
3 (ii)	Polyester Blended Shirting- Coloured (Cold Water)	BDS 1148:2021	12	210-211
3 (iii)	Polyester Blended Shirting- White (Machine Wash)	BDS 1148:2021	7	211
3 (iv)	Polyester Blended Shirting- White (Cold Water)	BDS 1148:2021	7	212
4 (i)	Polyester Blended Suiting- Coloured (Machine Wash)	BDS 1175:2021	12	212-213
4 (ii)	Polyester Blended Suiting- Coloured (Cold Water)	BDS 1175:2021	12	214-215
4 (iii)	Polyester Blended Suiting- White (Machine Wash)	BDS 1175:2021	7	215
4 (iv)	Polyester Blended Suiting-White (Cold Water)	BDS 1175:2021	7	215-216
5	Colour Fastness to Steaming	BDS ISO 105-E11:2004	1	216

Sl. No.	Product Name	Standard	No. of Test Parameters	Page No.
6	Sanitary Towels/ Napkins	BDS 1261:2019	4	216
7	Cotton Sharee- Power Loom	BDS 63:2017	12	216-217
8	Handloom Cotton Lungi Cloth	BDS 1331:2017	9	217-218
9	Absorbent Cotton	BDS 1260:2016	7	219
10 (i)	Umbrella Cloth- Coloured (Machine Wash)	BDS 1125:2020	13	219-220
10 (ii)	Umbrella Cloth- Coloured (Cold Water)	BDS 1125:2020	13	220-221
10 (iii)	Umbrella Cloth- White (Machine Wash)	BDS 1125:2020	11	221
10 (iv)	Umbrella Cloth- White (Cold Water)	BDS 1125:2020	11	222
11 (i)	Cotton Canvas-Dyed	BDS 319:2020	5	222
11 (ii)	Cotton Canvas-Grey(White)	BDS 319:2020	3	223
12 (i)	Poplin Fabric- Coloured	BDS 32:2011	17	223-224
12 (ii)	Poplin Fabric- White	BDS 32:2011	12	224-225
13 (i)	Hessian Jute Bags for Rice & Pulse (50kg)	BDS 1989:2021	8	225
13 (ii)	Hessian Jute Bags for Rice & Pulse (25kg)	BDS 1989:2021	8	225
14	Hessian Jute Bags for packing 30 KG Food Grains	BDS 2005:2022	8	226
15 (i)	Textiles -Jute bags for packing 50 kg Foodgrains (Type-A: Single warp, double weft woven on modern shuttle less loom)	BDS 1767:2014	8	226
15 (ii)	Textiles -Jute bags for packing 50 kg Foodgrains (Type-B: Double warp, single weft woven on conventional shuttle loom)	BDS 1767:2014	8	227
16 (i)	Light Weight Jute Sacking Bags for Packing 50 Kg Food grains (Type-A: Single warp, double weft woven on modern shuttle less loom)	BDS 1974:2019	8	227
16 (ii)	Light Weight Jute Sacking Bags for Packing 50 Kg Food grains (Type-B: Double warp, single weft woven on conventional shuttle loom)	BDS 1974:2019	8	228
17	Nonwoven Wipes	BDS 2017:2023	3	228
18 (i)	Silk Fabrics [Type:Raw Silk]	BDS 1467: 2021	6	228
18 (ii)	Silk Fabrics [Type: Balaka (Tafetta)] (Thrown degummed 2 ply warp and 2 ply/4ply weft is used)	BDS 1467: 2021	6	229
18 (iii)	Silk Fabrics [Type:Matka /Hand Spun Silk]	BDS 1467: 2021	6	229
18 (iv)	Silk Fabrics [Type: Dupion silk] (Thrown degummed 2 ply warp and de gummed reeled silk weft is used)	BDS 1467: 2021	6	229
18 (v)	Silk Fabrics [Type: Crepe de chine] [2 ply warp (600– 750 TPM organzine single twist) and 2 ply weft (1800 – 2200 TPM) is used]	BDS 1467: 2021	6	230

Sl. No.	Product Name	Standard	No. of Test Parameters	Page No.
18 (vi)	Silk Fabrics [Type: Ornamented] (2 ply warp and 2 ply /3ply /4ply/ 5 ply weft is used)	BDS 1467: 2021	6	230
18 (vii)	Silk Fabrics [Type: Chiffon] (Non-thrown silk warp and twisted weft is used.)	BDS 1467: 2021	6	230
18 (viii)	Silk Fabrics [Type: Georgette] (Both warp and weft S and Z twist TPM 1500 and above)	BDS 1467: 2021	6	231
18 (ix)	Silk Fabrics [Type: Cotton Silk (Silk not less than 25%)]	BDS 1467: 2021	6	231
18 (x)	Silk Fabrics [Type: Decorated silk fabric]	BDS 1467: 2021	6	231
19 (i)	Textiles -synthetic Mosquito Nets Single Nets (Variety- 1) (Mesh- 156) (Coloured)	BDS 1882:2014	11	232
19 (ii)	Textiles -synthetic Mosquito Nets Single Nets (Variety- 1) (Mesh- 196) (Coloured)	BDS 1882:2014	11	232
19 (iii)	Textiles -synthetic Mosquito Nets Single Nets (Variety- 2) (Mesh- 156) (Coloured)	BDS 1882:2014	11	233
19 (iv)	Textiles -synthetic Mosquito Nets Single Nets (Variety- 2) (Mesh- 196) (Coloured)	BDS 1882:2014	11	233-234
19 (v)	Textiles -synthetic Mosquito Nets Single Nets (Variety- 3) (Mesh- 156) (Coloured)	BDS 1882:2014	11	234
19 (vi)	Textiles -synthetic Mosquito Nets Single Nets (Variety- 3) (Mesh- 196) (Coloured)	BDS 1882:2014	11	235
19 (vii)	Textiles -synthetic Mosquito Nets Double Nets (Variety- 1) (Mesh- 156) (Coloured)	BDS 1882:2014	11	235
19 (viii)	Textiles -synthetic Mosquito Nets Double Nets (Variety- 1) (Mesh- 196) (Coloured)	BDS 1882:2014	11	236
19 (ix)	Textiles -synthetic Mosquito Nets Double Nets (Variety- 2) (Mesh- 156) (Coloured)	BDS 1882:2014	11	236
19 (x)	Textiles -synthetic Mosquito Nets Double Nets (Variety- 2) (Mesh- 196) (Coloured)	BDS 1882:2014	11	237
19 (xi)	Textiles -synthetic Mosquito Nets Double Nets (Variety- 3) (Mesh- 156) (Coloured)	BDS 1882:2014	11	237
19 (xii)	Textiles -synthetic Mosquito Nets Double Nets (Variety- 3) (Mesh- 196) (Coloured)	BDS 1882:2014	11	238
19 (xiii)	Textiles -synthetic Mosquito Nets Family Nets (Variety- 1) (Mesh- 156) (Coloured)	BDS 1882:2014	11	238
19 (xiv)	Textiles -synthetic Mosquito Nets Family Nets (Variety- 1) (Mesh- 196) (Coloured)	BDS 1882:2014	11	239
19 (xv)	Textiles -synthetic Mosquito Nets Family Nets (Variety- 2) (Mesh- 156) (Coloured)	BDS 1882:2014	11	239
19 (xvi)	Textiles -synthetic Mosquito Nets Family Nets (Variety- 2) (Mesh- 196) (Coloured)	BDS 1882:2014	11	240
19 (xvii)	Textiles -synthetic Mosquito Nets Family Nets (Variety- 3) (Mesh- 156) (Coloured)	BDS 1882:2014	11	240
19 (xviii)	Textiles -synthetic Mosquito Nets Family Nets (Variety- 3) (Mesh- 196) (Coloured)	BDS 1882:2014	11	241
19 (xix)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety- 1) (Mesh- 156) (Coloured)	BDS 1882:2014	11	241

Sl. No.	Product Name	Standard	No. of Test Parameters	Page No.
19 (xx)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety- 1) (Mesh- 196) (Coloured)	BDS 1882:2014	11	242
19 (xxi)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety- 2) (Mesh- 156) (Coloured)	BDS 1882:2014	11	242
19 (xxii)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety- 2) (Mesh- 196) (Coloured)	BDS 1882:2014	11	243
19 (xxiii)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety- 3) (Mesh- 156) (Coloured)	BDS 1882:2014	11	243
19 (xxiv)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety- 3) (Mesh- 196) (Coloured)	BDS 1882:2014	11	244
19 (xxv)	Textiles -synthetic Mosquito Nets Single Nets (Variety- 1) (Mesh- 156) (White)	BDS 1882:2014	9	244
19 (xxvi)	Textiles -synthetic Mosquito Nets Single Nets (Variety- 1) (Mesh- 196) (White)	BDS 1882:2014	9	245
19 (xxvii)	Textiles -synthetic Mosquito Nets Single Nets (Variety- 2) (Mesh- 156) (White)	BDS 1882:2014	9	245
19 (xxviii)	Textiles -synthetic Mosquito Nets Single Nets (Variety- 2) (Mesh- 196) (White)	BDS 1882:2014	9	246
19 (xxix)	Textiles -synthetic Mosquito Nets Single Nets (Variety- 3) (Mesh- 156) (White)	BDS 1882:2014	9	246
19 (xxx)	Textiles -synthetic Mosquito Nets Single Nets (Variety- 3) (Mesh- 196) (White)	BDS 1882:2014	9	247
19 (xxxi)	Textiles -synthetic Mosquito Nets Double Nets (Variety- 1) (Mesh- 156) (White)	BDS 1882:2014	9	247
19 (xxxii)	Textiles -synthetic Mosquito Nets Double Nets (Variety- 1) (Mesh- 196) (White)	BDS 1882:2014	9	248
19 (xxxiii)	Textiles -synthetic Mosquito Nets Double Nets (Variety- 2) (Mesh- 156) (White)	BDS 1882:2014	9	248
19 (xxxiv)	Textiles -synthetic Mosquito Nets Double Nets (Variety- 2) (Mesh- 196) (White)	BDS 1882:2014	9	249
19 (xxxv)	Textiles -synthetic Mosquito Nets Double Nets (Variety- 3) (Mesh- 156) (White)	BDS 1882:2014	9	249
19 (xxxvi)	Textiles -synthetic Mosquito Nets Double Nets (Variety- 3) (Mesh- 196) (White)	BDS 1882:2014	9	250
19 (xxxvii)	Textiles -synthetic Mosquito Nets Family Nets (Variety- 1) (Mesh- 156) (White)	BDS 1882:2014	9	250
19 (xxxviii)	Textiles -synthetic Mosquito Nets Family Nets (Variety- 1) (Mesh- 196) (White)	BDS 1882:2014	9	251
19 (xxxix)	Textiles -synthetic Mosquito Nets Family Nets (Variety- 2) (Mesh- 156) (White)	BDS 1882:2014	9	251
19 (xl)	Textiles -synthetic Mosquito Nets Family Nets (Variety- 2) (Mesh- 196) (White)	BDS 1882:2014	9	252
19 (xli)	Textiles -synthetic Mosquito Nets Family Nets (Variety- 3) (Mesh- 156) (White)	BDS 1882:2014	9	252
19 (xlii)	Textiles -synthetic Mosquito Nets Family Nets (Variety- 3) (Mesh- 196) (White)	BDS 1882:2014	9	253
19 (xliii)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety- 1) (Mesh- 156) (White)	BDS 1882:2014	9	253

Sl. No.	Product Name	Standard	No. of Test Parameters	Page No.
19 (xlv)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety- 1) (Mesh- 196) (White)	BDS 1882:2014	9	254
19 (xlv)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety- 2) (Mesh- 156) (White)	BDS 1882:2014	9	254
19 (xlv)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety- 2) (Mesh- 196) (White)	BDS 1882:2014	9	255
19 (xlvii)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety- 3) (Mesh- 156) (White)	BDS 1882:2014	9	255
19 (xlviii)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety- 3) (Mesh- 196) (White)	BDS 1882:2014	9	256
20 (i)	Towels and Towelling- Terry (Machine Wash) (Coloured)	BDS 1898:2015	11	256
20 (ii)	Towels and Towelling- Terry (Machine Wash) (White)	BDS 1898:2015	9	257
20 (iii)	Towels and Towelling- Huck-a-Back (Machine Wash) (Coloured)	BDS 1898:2015	11	257
20 (iv)	Towels and Towelling- Huck-a-Back (Machine Wash) (White)	BDS 1898:2015	9	258
21 (i)	Disposable Diapers [Baby Diaper, Size- XS (NewBorn)]	BDS 2006:2022	4	258
21 (ii)	Disposable Diapers [Baby Diaper, S (Small size)]	BDS 2006:2022	4	258
21 (iii)	Disposable Diapers [Baby Diaper, Size- M (Medium size)]	BDS 2006:2022	4	258
21 (iv)	Disposable Diapers [Baby Diaper, Size- L (Large size)]	BDS 2006:2022	4	259
21 (v)	Disposable Diapers [Baby Diaper, Size- XL (Extra Large size)]	BDS 2006:2022	4	259
21 (vi)	Disposable Diapers [Baby Diaper, Size- size XXL (Extra Extra Large size)]	BDS 2006:2022	4	259
21 (vii)	Disposable Diapers [Adult Diaper, Size- M]	BDS 2006:2022	4	259
21 (viii)	Disposable Diapers [Adult Diaper, Size- L]	BDS 2006:2022	4	259
22	Specification for Cotton Long Cloth	BDS 64:2015	5	259
23	Specification for Cotton Bed sheets	BDS 951:2012	5	260
24	Specification for JamdaniSharee	BDS 1920:2016	5	260
25	Specification for Reusable Sanitary Napkin	BDS 2024:2024	7	261
26 (i)	Cottonl Sewing Threads-White	BDS 33 :1989 (Reaffirm:2005)	5	262
26 (ii)	Cottonl Sewing Threads-Coloured	BDS 33:1989 (Reaffirm:2005)	8	262
Total Products =26 (Product variety=163)		Total Parameters = 1298 (One thousand two hundred ninety eight)		

National Metrology Laboratory (NML-BSTI) of Metrology Wing

SI No.	Laboratory Name	No. of test parameter	Page No.
1.	Mass Measurement Lab	01	264
2.	Balance Measurement Laboratory	01	264
3.	Length and Dimension Measurement Laboratory	07	264
4.	Temperature Laboratory	06	264
5.	Pressure Measurement Laboratory	03	264
6.	Force Measurement Laboratory	03	264
7.	Volume Measurement Laboratory	02	264
8.	Time Measurement Laboratory	01	264
	Total parameters	24 (twenty four)	

Standards Wing

SI No.	Description	Page No.
01	Break up of Bangladesh Standards	265

Management Systems Certification (MSC) Wing

SI No.	Description	Page No.
01	Management Systems Certification (MSC) Wing Activities	266

Halal Certification

SI No.	Description	Page No.
01	Activities of BSTI Halal Certification	267

Chemical Testing Wing

Group: Processed Fruit Product (17)



Processed Fruit Products



Analysis of colour by HPLC



Brix Determination



Trace Element Analysis by AAS(Flame)

Mandatory Products and their parameters of Chemical Testing Wing:

Group : Processed Fruit Products (17)

SI No.s	Product Name	BDS No.	Test Parameters	Standard Limit
1.	Canned And Bottled Fruits	BDS503: 2006 (1st Rev)	1. Number and packing medium Brix measurements	
			(3) and (6)	140 or more but less than 180
			(4) and (7)	180 or more but less than 220
			(5) and (8)	220 or more but less than 350
			1. Water; 2.Fruit juice; 3.Light syrup; 4.Heavy syrup; 5.Extra heavy syrup; 6.Light fruit juice syrup;7.Heavy fruit juice syrup, and 8. Extra heavy fruit juice syrup	
			2. Arsenic (as As),mg/kg	0.20 (Max)
			3. Lead (as Pb),mg/kg	0.30 (Max)
			4. Copper (as Cu), mg/kg	5.00 (Max)
2.	Fruit Squash	BDS 506: 2002	1. Total Soluble solids, %mm	20-50
			2. Degree Brix of Clear Sample	40.00 (Min)
			3. Acidity (as anhydrous Citric acid, % mm	1.00-2.50
			4. Benzoic Acid, mg/kg	600.00 (Max)
			5. Food Color-Sunset Yellow,mg/kg	300.00 (Max)
			6. Score Point	80.00 (Min)
			7. Arsenic (as As),mg/kg	0.10 (Max)
			8. Lead (as Pb),mg/kg	2.50 (Max)
			9. Copper (as Cu), mg/kg	30.00 (Max)
			10. Zinc (Zn),mg/kg	19.00 (Max)
			11. Tin (as Sn),mg/kg	250.00 (Max)
3.	Fruit Cordial	BDS 508: 2006	1. Description	The sample shall be of a clear uniform consistency and of a characteristic color. it shall have a pleasant flavour and it shall be free from seeds, course particles and extraneous matter.
			2. Total Soluble solids, % mm	34.00 (Min)
			3. Fruit Juice content, % mm	14-20
			4. Total Sugar (as sucrose), % mm	35.00 (Min)
			5. Sulphur dioxide content, mg/kg	70.00 (Max)
			6. Benzoic Acid, mg/kg	1000.00 (Max)
			7. Acidity (as anhydrous Citric acid, % mm	1.50 (Max)

SI No.s	Product Name	BDS No.	Test Parameters	Standard Limit
			8. pH Range	3.2-3.8
			9. Arsenic (as As),mg/kg	0.20 (Max)
			10. Lead (as Pb),mg/kg	0.30 (Max)
			11. Copper (as Cu), mg/kg	5.00 (Max)
			12. Tin (as Sn),mg/kg	250.00 (Max)
4.	Fruit Syrup	BDS 528: 2019	1. Description	Fruit Syrup shall possess uniform colour, characteristic taste and flavour of fruits.
			2. Total soluble solids,% m/m	65.00 (Min)
			3. Total sugar (as sucrose), % m/m	60-70
			4. Sulphur dioxide content, mg/kg	350.00 (Max)
			5. Benzoic acid / Sodium benzoate, mg/kg	1000.00 (Max)
			6. Acidity (as anhydrous citric acid),% m/m	1.0 (Max)
			7. pH Range	3.2 — 4.0
			8. Score point	80.00 (Min)
			9. Arsenic (as As), mg/kg	0.20 (Max)
			10. Lead (as Pb), mg/kg	0.30 (Max)
			11. Copper (as Cu), mg/kg	5.00 (Max)
			12. Zinc (as Zn), mg/kg	5.00 (Max)
			13. Tin (as Sn) ,mg/kg	250.00 (Max)
			14. Total plate count per ml	Less than 10,000
			15. Total coliform count, per ml	Nil
			16. Yeasts and moulds count per ml	Less than 10
5.	Fruit Drinks	BDS 1581: 2015	1. Description	The product shall be of a uniform consistency and of a characteristic colour. It shall be free from pips, seeds, peel and extraneous matter. The product shall have a pleasant flavour and aroma.
			2. Total soluble solid, %m/m	16.00 (Max)
			3. Acidity (as anhydrous citric acid), % m/m	1.00 (Max)
			4. Sulphur dioxide content, mg/kg	50.00 (Max)
			5. Benzoic acid content, mg/kg	120.00 (Max)
			6. Sorbic acid content, mg/kg	300.00 (Max)
			7. Arsenic(as As), mg/kg	0.10 (Max)
			8. Cadmium (as Cd), mg/kg	1.00 (Max)
			9. Lead (as Pb), mg/kg	0.50 (Max)
			10. Tin (as Sn) mg/kg	40.00 (Max)
			11. Total plate count per ml	Less than 50
			12. Total coliform count, per ml	Absent
			13. Yeasts and moulds count per ml	Absent

SI No.s	Product Name	BDS No.	Test Parameters	Standard Limit
6.	Fruits and Vegetables Juice	BDS 513: 2013	1. Description	The product shall possess uniform colour, characteristic taste and flavour of the named fruit, shall be free from defect.
			2. Brix level	13.50 (Min)
			3. Benzoic acid content, mg/kg	1000.00 (Max)
			4. Acidity (as citric acid), %m/m	3.50 (Max)
			5. Score	80.00 (Min)
			6. Arsenic(as As), mg/kg	0.20 (Max)
			7. Lead (as Pb), mg/kg	0.30 (Max)
			8. Copper(as Cu), mg/kg	5.00 (Max)
			9. Zinc (as Zn),mg/kg	5.00 (Max)
			10. Tin (as Sn),mg/kg	25.00 (Max)
			11. Total plate count, per ml, cfu	100.00 (Max)
			12. Total coliform count per ml, cfu	<10
			13. Yeast and Mould count, per ml, cfu	<10
7.	Canned Pineapple	BDS CAC 42: 2007	1. Description	The sample shall have a characteristic colour and a flavour characteristic of that imparted by the pineapple. It shall have a reasonably good texture. It shall be free from porosity.
			2.The percentage of core material (%)	7.00 (Max)
			3.Degree Brix (Depending on the packing media)	14.00 (Min)
			4.Fill of container (%)	90.00 (Min)
			5.Drained weight for Crushed or Chips style (%)	63.00 (Min)
			6.Allowances of Defects(for Crushed or Chips style	
			a) Excessive Trim(%)	Not applicable
			b) Blemishes (%)	1.50 (Max)
			7.Lead (Pb), mg/kg	1.00 (Max)
			8.Tin (Sn), Calculated as Sn , mg/kg	250 (Max)
8.	Jams, Jellys and marmaleds	BDS CAC 296:2014	1. Description	The sample shall be of an appropriate gelled consistency, having normal colour and flavour appropriate to the type or kind of fruit ingredient. It shall be free from defective materials normally associated with the fruits.
			2. Total soluble solids, %m/m	60.00 (Min)
			3. Sodium benzoate, mg/kg	1000.00 (Max)
			4. Sulphur dioxide (SO ₂),mg/kg	50.00 (Max)
			5. Lead (Pb), mg/kg	1.00 (Max)
			6. Tin (Sn), Calculated as Sn, mg/kg	250 (Max)

SI No.s	Product Name	BDS No.	Test Parameters	Standard Limit
9.	Concentrated Fruit Juice	BDS 527: 2015	1. Brix level	20.00 (Min)
			2. Acidity (as citric acid),%m/m	3.50 (Max)
			3. Score	80.00 (Min)
			4. Arsenic(as As), mg/kg	0.20 (Max)
			5. Lead (as Pb), mg/kg	0.30 (Max)
			6. Copper(as Cu), mg/kg	5.00 (Max)
			7. Zinc (as Zn),mg/kg	5.00 (Max)
			8. Tin (as Sn),mg/kg	25.00 (Max)
			9. Total plate count, per ml, cfu	100.00 (Max)
			10. Total coliform count per ml, cfu	<10
			11. Yeast and Mould count, per ml, cfu	<10
			12. E. Coli	Nil
10.	Sauce (Fruit and vegetable)	BDS 512: 2017	1.Description	The sample shall be free from pest, insects and their residues, rodent hair, adulterants, foreign matter, visible fungal infestation and other signs of spoilage.
			2.Total Soluble solids, % mm	15.00 (Min)
			3.Acidity (as anhydrous Citric acid),% m/m	1.20 (Min)
			4.Benzoic Acid, mg/kg	750.00 (Max)
			5.Other preservatives(as Sorbic Acid), mg/kg	Nil
			6.Arsenic (as As),mg/kg	0.20 (Max)
			7.Lead (as Pb),mg/kg	0.30 (Max)
			8.Copper (as Cu), mg/kg	5.00 (Max)
			9.Tin (as Sn),mg/kg	250.00 (Max)
			10.Zinc (Zn),mg/kg	5.00 (Max)
11.	Tomato Paste	BDS 517: 2015	1. Description	Tomato paste shall have characteristic red colour good flavour, characteristic of properly processed product. Product shall be free from foreign taste, in particular the taste of burned or caramelised products. It shall be free from extraneous plant material including skin, seeds and other coarse parts of tomatoes and practically free from mineral compounds.
			2. Total Tomato Soluble Solids exclusive of salt. % m/m	25.00 (Min)

SI No.s	Product Name	BDS No.	Test Parameters	Standard Limit
			3. Benzoic Acid , mg/kg	250.00 (Max)
			4. pH	4.50(Max)
			5. Arsenic(as As), mg/kg	0.20 (Max)
			6. Lead (as Pb),mg/kg	0.30 (Max)
			7. Tin (as Sn),mg/kg	250.00 (Max)
			8. Zinc (as Zn),mg/kg	5.00 (Max)
			9. Copper (as Cu),mg/kg	5.00 (Max)
			10. Total plate count, cfu per gm	50.00 (Max)
			11. Mould count per gm	<10
			12. Total coliform count per gm	Nil
12.	Tomato Ketchup	BDS 530: 2002	1. Description	The material shall possess good body, uniform colour and normal characteristic taste and flavour. It shall be free from defects.
			2. Total soluble solids. %m/m	25.00 (Min)
			3. Specific gravity (Brix)	1.111 (Min),26o (Min)
			4. Acidity, expressed as acetic acid, % m/m	1.20 (Min)
			5. Benzoic Acid, mg/kg	750.00 (Max)
			6. Score point	85.00 (Min) (Grade-1) and75.00 (Min)(Grade-2)
			7. Arsenic(as As), mg/kg	1.10 (Max)
			8. Lead (as Pb),mg/kg	2.50 (Max)
			9. Tin(as Sn),mg/kg	250.00 (Max)
			10. Zinc (as Zn),mg/kg	19.00 (Max)
			11. Copper (as Cu),mg/kg	30.00 (Max)
			12. Total plate count, per gm	-
			13. Mould count	-
13.	Soya Sauce	BDS 1718: 2002	1. Description	The dark Soya Sauce shall be a thick dark, reddish brown liquid with a well-blended palatable tart, a sweetish salty flavour and possessing aroma and body characteristics typical of this type of sauce. It shall not contain off flavours, undesirable odours, extraneous moulds, foreign matters and practically be free of sediments.
			2. Total solid, %m/m	22.00-44.00

SI No.s	Product Name	BDS No.	Test Parameters	Standard Limit
			3. pH	4.2-4.8
			4. Salt(as Sodium Chloride) % m/m	20 (max)
			5. Total Nitrogen,%m/m	1.0 (min)
			6. Amino Nitrogen, %m/m	0.35 (min)
			7. Halophytic Yeast Count	Not detected
14.	Fermented Vinegar	BDS 523: 2015	1. Description	The material shall be clear liquid, free from cloudiness or suspended particles. It shall possess the characteristic taste and odour of the raw material from which it is produced.
			2. Total acid content (as acetic acid), gm/100 ml	6.0 — 8.0
			3. Residual Alcohol content(v/v)	0.50(Max)
			4. Total Solid, %m/m	1.50 (Min)
			5. Total Ash, %m/m	0.18 (Min)
			6. Soluble solids, % m/v	0.13 (Max)
			7. Arsenic(as As), mg/kg	0.10 (Max)
			8. Lead (as Pb), mg/kg	0.20 (Max)
			9. Copper(as Cu), mg/kg	10.00 (Max)
			10. Zinc (as Zn),mg/kg	10.00 (Max)
			11. Tin (as Sn),mg/kg	10.00 (Max)
			12. Phosphorus Pentoxide (as P ₂ O ₅), %m/m	0.05 (Min)
			13. Nitrogen Content, %m/m	0.04 (Min)
15.	Synthetic Vinegar	BDS 1896: 2015	1. Description	The material shall be clear liquid, free from cloudiness or suspended particles. It shall possess the characteristic taste and odour of the raw material from which it is produced.
			2. Total acid content (as acetic acid), gm/100 ml	4 (Min)
			3. Residual Alcohol content(v/v)	0.50(Max)
			4. Soluble solids, % m/v	0.2 (Max)
			5. Arsenic(as As), mg/kg	0.10 (Max)
			6. Lead (as Pb), mg/kg	0.20 (Max)
			7. Copper(as Cu), mg/kg	10.00 (Max)
			8. Zinc (as Zn),mg/kg	10.00 (Max)
			9. Tin (as Sn),mg/kg	10.00 (Max)

SI No.s	Product Name	BDS No.	Test Parameters	Standard Limit
16.	Chutney	BDS 521: 2011	1. Score point	85.00 (Min)
			2. Total soluble solids (degree brix)	50o (Min)
			3. Material retained on 2mm sieve, % m/m	10.00 (Max)
			4. Total ash, %m/m	5.00 (Max)
			5. Acid insoluble ash, %m/m	0.50 (Max)
			6. Benzoic acid content, mg/kg	250.00 (Max)
			7. Arsenic, mg/kg	0.20 (Max)
			8. Lead, mg/kg	0.30 (Max)
			9. Copper, mg/kg	5.00 (Max)
			10. Zinc, mg/kg	5.00 (Max)
			11. Tin, mg/kg	250.00 (Max)
			12. Total plate count per ml	50.00 (Max)
			13. Total coliform count, per ml	Absent
			14. Yeasts and moulds count per ml	Absent
17.	Pickled Fruits & Vegetables	BDS CAC 260: 2014	1.Description	The product shall have colour,flavour, odour and texture characteristic of the Fruits/Vegetables. It shall be practically free from blemishes and extraneous matter.
			2.pH	Less than 4.6
			3.Sulphur dioxide content, mg/kg	100.00(Max)
			4.Benzoates as Benzoic acid, mg/kg	1000.00 (Max)
			5.Arsenic(as As), mg/kg	-
			6.Lead (as Pb), mg/kg	-
			7.Tin (as Sn) , mg/kg	-

Chemical Testing Wing

Group: Milk and Milk Products (23)



Milk and milk products Samples



Analyses of Vitamin in milk Products by HPLC



Analyses of Vitamin in milk Products by LC-MS/
MS



Heavy metal analysis of milk products

Group :Milk and Milk Products (23)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
1.	Milk Powder	BDS 860: 2020	1. Description	The material shall be white or white with greenish tinge or light cream in colour. It shall be free from lumps except those that break up readily under slight pressure and shall be reasonably free from scorched particles. It shall also be free from extraneous matter.
			2. Water, % m/m	5.00 (Max)
			3. Milk protein in milk solids Non-fat, % m/m	34 (Min)
			4. Milk fat, % m/m	26% to <42%
			5. Titratable acidity (as lactic acid) (ml-0.1 N NaOH/10gm SNF)	18.00 (Max)
			6. Total Ash, on dry basis, % m/m	9.3(Max)
			7. Solubility Index, ml	1.00 (Max)
			8. Melamine, mg/kg	1.0 (Max)
			9. Total plate count, cfu, in 1g	30,000 (Max)
			10. Total coliform count, in 1g	10 (Max)
			11. Yeasts and mould, cfu/g	100(Max)
			12. Salmonella, in 25g	Absent
			13. Staphylococcus aureus, in 1.0g	Absent
			14. Lead, mg/kg	0.02 (Max)
2.	A blend of skimmed milk and vegetable fat in powdered form	BDS CXS-251:2021,	1. Description	The material shall be white with greenish tinge or light cream in colour. It shall be free from lumps or caking, practically free from scorched particles, dirt and extraneous matter.
			2. Water, % m/m	5.00 (Max)
			3. Total fat, % m/m	26.00 (Min)
			4. Milk protein in milk solids-not-fat, %m/m	34.00 (Min)
			5. Lead, mg/kg	0.02 (Max)
			6. Arsenic, mg/kg	0.10 (Max)
			7. Melamine, mg/kg	2.5(Max)
			8. Coliform	————

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>	
3.	Butter Oil/ Ghee	BDS 908: 2020	1. Description	The material shall have the characteristic colour and flavour of Butter Oil. It shall be free from dirt, extraneous matter, harmful bacteria & toxic substances.	
			2. Moisture, %m/m	0.40 (Max)	
			3. Milk fat, %m/m	99.60 (Min)	
			4. Acid value of fat (asKOH),mg/g	0.80 (Max)	
			5. Refractive index of fat at40°C	1.4524-1.4566	
			6. Melting point at °C	28.00-35.00	
			7. Iodine value	26.00-35.00	
			8. Saponification value (as KOH), mg/g	218.00 (Min)	
			9. R.M value,	23.00 (Min)	
			10. Polenske value	2.80 (Max)	
			11. Peroxide value(milli -equivalents of oxygen /kg of fat)	0.8 (Max)	
			12. Baudouin test	Negative	
4.	Ice-Cream	BDS 1083: 2006		Ice –Cream (Plain)	Ice-Cream (Composite)
			1. Description	The material shall be attractive in appearance, smooth in texture and of a uniform consistency. It shall have a pleasant odour and flavour and shall be free from dirt and extraneous matter.	The material shall be attractive in appearance, smooth in texture and of a uniform consistency. It shall have a pleasant odour and flavour and shall be free from dirt and extraneous matter.
			2. Mass in grams, per litre, Min.	525	540
			3. Total Solids, percent by mass,	36 (Min.)	36 (Min.)
			4. Total milk solids,% by mass,	10(Min.)	8(Min.)
			5. Total milk solids not fat (SNF)	10.0-11.0	10.0-11.0
			6. Milk fat/Vegetable fat,% by mass	10(Min.)	8(Min.)
			7. Acidity (as lactic acid), % by mass,	0.22 (Max.)	0.22 (Max.)
			8. Sugar, solid ingredients,% by mass,	16 (Max.)	16(Max.)
			9. Stabilizer and Emulsifier,% by mass,	0.5(Max.)	0.5(Max.)
			10. Total colony counts, per gram, (standard plate count), not more than	100,000	100,000
			11. Total Coliform count, per gram, not more than	10	10
12. Phosphatase test of mix	Negative	Negative			

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>	
5.	Chhana	BDS 1180: 2016		Skim milk	Whole milk
			1. Moisture, per cent by mass, Max.	60	65.0
			2. Milk fat, per cent by mass, (on dry basis)	5.0 (Max.)	50.0 (Min.)
			3. Protein, per cent by mass (on dry basis),	30 (Min.)	25.0 (Min.)
			4. Ash, per cent by mass (on dry basis),	5 (Max.)	5.0 (Max.)
			5. Total plate count, CFU per g,Max.	1,00,000	1,00,000
			6. Coliform count, MPN per g,	10 (Max.)	10(Max.)
7. Yeast and mould count,cfu per g,	10 (Max.)	10(Max.)			
6.	Lacchi (Yoghurt Drink)	BDS 1470: 2015	1. Description	Yogurt Drink shall be prepared from clean, fresh and good quality yoghurt. It shall be white or light creamy colour. It shall be free from dirt and other foreign matter.	
			2. Milk Fat content , (% m/m)	1.0 (min)	
			3. Milk Protein,(% m/m)	1.0 (min)	
			4. Milk solids not fat content (% m/m)	3.0 (min)	
			5. Sugar (% m/m)	5.0 (min)	
			6. Total solids content ,% m/m	10.2 (min)	
			7. Specific gravity	1.03-1.09	
			8. Escherichia coli	Absent	
			9. Staphylococcus aureus	Absent	
			10. Salmonella and Shigella	Absent	
7.	Flavoured Milk	BDS 1471: 2012	1. Milk Fat, %m/m	2.0 – 2.5	
			2. Solids Non-fat (SNF), %m/m	8.00 (Min)	
			3. Sugar (Sucrose), %m/m	7.50 (Min)	
			4. Total Milk Solid, % m/m	10.00 (Min)	
			5. Specific gravity at 20 ± 1 °C	1.06 (Min)	
			6. Total colony count, cfu/ml	Nil/0.1 mL(Max)	
			7. Total coliform count, max	Nil/0.1 mL	
			8. Total coliform count, max	Nil/0.1 mL	

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
8.	Pasteurized Milk	BDS 1702: 2019	1. Description	The material shall have white yellowish opaque colour with fresh sweetish characteristic odour of milk. It shall be free from visible dirt and extraneous matter
			2. Fat, % m/m	3.50 (Min)
			3. Solids Non-fat (SNF),% m/m	8.00 (Min)
			4. Density, gm/ml at 15.5°C	1.028-1.034
			5. Lactose, % m/m	4.40 (Min)
			6. Protein, % m/m	3.00 (Min)
			7. Ash, % m/m	0.70 (Max)
			8. Titratable acidity (as lactic acid/100 ml of milk)	0.18 (Max)
			9. Total count/ml	30,000 (Max)
			10. Total coliform count/ml	Less than 10
			11. Alcohol test	Negative
			12. Oxytetracycline (mg/kg)	0.1(Max)
			13. Enrofloxacin (mg/kg)	0.1(Max)
			14. Lead (mg/kg)	0.02(Max)
			15. Aflatoxin (µg/kg)	0.50 (Max)
			16. Melamine	1.00(Max)
9.	Sweetened/ Unsweetened Condensed Filled Milk	BDS 1780: 2014 (1 st Rev)	1. Description	The material shall have a smooth uniform texture and shall be free from rancidity and objectionable flavor and odor. It should also be free from dirt and extraneous matter.
			2. Total Milk solids- not fat,% m/m	20.00 (Min)
			3. Total solids, % m/m	74-75
			4. Fat(edible oil or edible vegetable fat), % m/m	8.00 (Min)
			5. Sucrose (refined sugar), % m/m	42-47
			6. Milk protein in milk solids not fat,%m/m	34.00 (Min)
			7. Titratable acidity (as lactic acid), % m/m	0.32 (Max)
			8. Peroxide value	Must fulfill the requirement of relevant BDS of edible vegetable oil used
			9. Melamine, mg/kg	-
			10. Total colony per gm	10,000 (Max)
			11. Coliform count per gm	Nil
			12. Yeast/Mould per gm	10 (Max)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
10.	Ultra Heat Temperature (UHT) Treated Milk	BDS 1805: 2022	1. Description	The sample shall have clean, normal in flavour, texture, colour and odour and free from any foreign matter.
			2. Milk Fat, % m/m	3.50 (Min)
			3. Non fat, milk solids, % m/m	8.00 (Min)
			4. Living coliform	Nil
			5. Total colony count	Less than 10 in 0.1 ml of milk
			6. Homogenized milk	Shall comply with homogenization tests
			7. Phosphatase	Absent
			8. Oxytetracycline (mg/kg)	0.1(Max)
			9. Enrofloxacin (mg/kg)	0.1(Max)
			10. Lead (mg/kg)	0.02(Max)
			11. Melamine	1.00(Max)
11.	Sweetmeats	BDS 1811: 2008	1. Moisture, percent by mass,	55.0 (Max)
			2. Ash, percent by mass, Max.	0.9
			3. Milk Fat. percent by mass,	5.0 (Min)
			4. Sucrose, percent by mass,	50.0 (Max)
			5. Proteins, percent by mass, Min.	5
			6. Total solids, percent by mass,	45.0 (Min)
			7. Requirements For Syrup	
			(i)Acidity of syrup, ml of N/10 NaOH requiredto neutralize 100 ml of the syrup,	6.0 (Max)
(ii)Concentration of syrup, Min (in Brix)	55°			
12.	Pasteurized Low Fat Milk and Standardized Milk	BDS 1886: 2022	1. Description	The material shall have white yellowish opaque colour with fresh sweetish characteristic odour of milk. It shall be free from visible dirt and extraneous matter.
			2.Milk fat, % m/m	3.5 (Min)
			3.Solid non-fat, % m/m	8.00 (Min)
			4. Density, g/mL at 15.5 °C	1.028-1.036
			5. Lactose, % m/m	4.40 (Min)
			6. Protein, % m/m	3.00 (Min)
			7. Titratable acidity (as lactic acid/100 mL of milk)	0.18 (Max)
			8. Total plate count CFU/mL	30000 (Max)
			9. Total coliform count CFU/mL	Less than 10
			10. Alcohol test	Negative
			11. Oxytetracycline (mg/kg)	0.1 (Max)
			12. Enrofloxacin (mg/kg)	0.1 (Max)
			13. Lead (mg/kg)	0.02 (Max)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
13.	Infant Formula and formulas for special Medical purposes intended for Infants	BDS CAC 72:2008	1.Protein, g/100 Kcal	1.80 – 3.0
			2.Total Fat, g/100 Kcal	4.40-6.00
			3.Carbohydrates, g/100 Kcal	9.0-14.0
			4.Calcium, mg/100 Kcal	50.00 (Min)
			5.Chloride, mg/100 Kcal	50 – 160
			6.Iron, mg/100 Kcal	0.45 (Min)
			7.Phosphorus, mg/100 Kcal	25.00 (Min)
			8.Magnesium, mg/100 Kcal	5.00 (Min)
			9.Sodium, mg/100 Kcal	20-60
			10.Potassium, mg/100 Kcal	60-180
			11.Copper, µg/100 Kcal	35 (Min)
			12.Zinc, mg/100 Kcal	0.50 (Min)
			13.Manganese, µg/100 Kcal	1.00 (Min)
			14.Pathogenic microorganisms (coliform count/g)	Absent
			15.Melamine, mg/kg	1.00 (Max)
			16.Vitamin A, µg RE/100 Kcal	60-180
			17.Vitamin E, mg α-TE/100 Kcal	0.50(Min)
			18.Niacin, µg/100 Kcal	300.0(Min)
			19.Pantothenic Acid,µg/100 Kcal	400.0(Min)
			20.Vitamin C (Ascorbic Acid), µg/100 Kcal	10.0(Min)
			21.Thiamine (Vit.B1), µg/100 Kcal	60.00(Min)
			22.Riboflavin (Vit.B2),µg/100 Kcal	80.00(Min)
			23.Vitamin D, µg/100 Kcal	03-Jan
			24.Vitamin K, µg/100 Kcal	4.00(Min)
			25.Vitamin B6, µg/100 Kcal	35.00 (Min)
			26.Vitamin B12, µg/100 Kcal	0.10(Min)
			27.Folic acid, µg/100 Kcal	10.00 (Min)
			28.Biotin (Vitamin H), µg/100 Kcal	1.50 (Min)
14.	Processed Cereal Based Foods for Infants and Young Children	BDS CXS-74:2022,	1.Energy Density, Kcal/g	0.80 (Min)
			2.Protein, g/100 Kcal	5.50 (Max)
			3.Fat, g/100 Kcal	4.50 (Max)
			4.Calcium, mg/100 Kcal	80.0 (Min)
			5.Sodium, mg/100 Kcal	100.0(Max)
			6.Pathogenic microorganisms (coliform count/g)	Absent
			7.Melamine, mg/kg	-
			8.Vitamin A, µg RE/100 Kcal	60-180
			9.Vitamin B1 (Thiamin), µg /100 Kcal	50.00(Min)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
15.	Follow Up Formula	BDS CAC 156:2008, Amendment-1, 2009	1.Protein, g/100 Kcal	3.00-5.50
			2.Fat, g/100 available calories	3.00–6.00
			3.Calcium (Ca), mg/100 available calories	90.00 (Min)
			4.Sodium (Na), mg/100 available calories	20.00-85.00
			5.Potassium (K), mg/100 available calories	80.00 (Min)
			6.Chloride (Cl), mg/100 available calories	55.00 (Min)
			7.Iron (Fe), mg/100 available calories	1.00-2.00
			8.Phosphorus (P), mg/100 available calories	60.00 (Min)
			9.Zinc (Zn), mg/100 available calories	0.50 (Min)
			10.Magnesium (Mg), mg/100 available calories	6.00 (Min)
			11.Pathogenic microorganisms (coliform count/g)	Absent
			12.Melamine, mg/kg	1.00 (Max)
			13.Vitamin A, µg/100 available calories	75.0-225.0
			14.Ascorbic Acid (Vit.C), mg/100 available calories	8.00(Min)
			15.Nicotinamide, µg/100 available calories	250.0(Min)
			16.Pantothenic Acid, µg/100 available calories	300.0(Min)
			17.Vitamin E, IU/100 available calories	0.70(Min)
			18.Thiamine (Vit.B1), µg/100 available calories	40.00(Min)
			19.Riboflavin (Vit.B2), µg/100 available calories	60.00(Min)
			20.Vitamin D, µg/100 Kcal	03-Jan
			21.Vitamin K, µg/100 Kcal	4.00(Min)
			22.Vitamin B6, µg/100 Kcal	45.00 (Min)
			23.Vitamin B12, µg/100 Kcal	0.15(Min)
			24.Folic acid, µg/100 Kcal	4.00 (Min)
			25.Biotin (Vitamin H), µg/100 Kcal	1.50(Min)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
16.	Fermented Milks	BDS CAC 243:2015	1.Milk Fat content , (% m/m)	Less than 15%
			2.Milk Protein,(% m/m)	Min 2.7%
			3.Titrable Acidity Expressed as Lactic Acid,(% m/m)	Min 0.6%
17.	Cream Cheese	BDS CAC 275: 2020	1.Description	Cram Cheese is a soft, spreadable. The cheese has a near white through to light yellow colour. The texture is spreadable and smooth to slightly flaky and without holes, and cheese spreads and mixes readily with other foods.
			2.Milk Fat in dry matter, %m/m	25.00 (Min)
			3.Moisture (on fat free basis), %m/m	67.00(Min)
			4.Dry matter, %m/m	22.00(Min)
			5.Lead (as Pb), mg/kg	0.05 (Mix)
18.	Extra hard grating cheese	BDS CAC 278: 2020	1. Description	Extra hard, dry, slightly brittle,suitable for grating. Period of curing at least 6 months.
			2.Milk Fat in dry matter:	32%(Min)
			3. Moisture on fat free basis	36%(Max)
			4.Preservatives	
19.	Cheese	BDS CXS 283:2022	1. Moisture(on fat free basis)%m/m	54-69
			2. Fat Content, % m/m	25-Oct
			3. Melamine,mg/Kg	-
			4. Coliform count per gm	-
20.	Whey cheeses	BDS CXS 284:2022	1.Total Fat	Min. 10%, less than 33%
			2.Lead	As per standard
21.	Butter	BDS CXS 279:2023	1. Description	Butter shall be fatty products derived exclusively from milk and or product obtained from milk of principally in the form of an emulsion of the type water in oil.
			2. Milk fat content, % m/m	80.00 (Min)
			3. Water, % m/m	16.00 (Max)
			4. Milk solid non-fat (SNF)	2.00 (Max)
			5. Lead (as Pb), mg/kg	0.05 (Max)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
22.	Sweetened Condensed Milk	BDS CAC A-4:2022	1. Milk solids % m/m	8.00 (Min)
			2. Milk fat, % m/m:	More than 1 % and less than 8 % m/m
			3. Milk solids- not- fat, % m/m	20.00 (Min)
			4. Milk protein in milk solids not fat,% m/m	34.00 (Min)
			5. Pathogenic microorganisms (coliform count)	-
			6. Melamine mg /kg	-
23.	Whey Powder	BDS CXS 289:2023	Whey Powder	
			1. Lactose, Whey Powder % m/m	61.0 (reference content)
			2. Milk Protein, % m/m	10.0 (min)
			3. Milk Fat, % m/m	2.0 (reference content)
			4. Water, % m/m	5.0 (max)
			5. Ash, % m/m	9.5 (max)
			6. pH (in 10% solution)	>5.1
	7. Titrable Acidity(as lactic acid),% m/m	<0.35		
	Acid Whey Powder	BDS CXS 289:2023	1. Lactose, % m/m	61.0 (reference content)
			2. Milk Protein, % m/m	7.0 (min)
			3. Milk Fat, % m/m	2.0 (reference content)
			4. Water, % m/m	4.5 (max)
			5. Ash, % m/m	15.0 (max)
			6. pH (in 10% solution)	5.1 (max)
			7. Titrable Acidity(as lactic acid),% m/m	≥0.35
	Sweet Whey Powder	BDS CXS 289:2023	1. Lactose, % m/m	65.0 (min)
			2. Milk Protein, % m/m	11.0 (min)
			3. Milk Fat, % m/m	—
			4. Water, % m/m	—
			5. Ash, % m/m	8.5 (max)
			6. pH (in 10% solution)	>6.0
7. Titrable Acidity(as lactic acid),% m/m			0.16 (max)	

Chemical Testing Wing

Group: Oils and Fat Products (11)



Samples of oils and fat products and also analysis of color in samples



Analysis of Erucic acid in mustard oil by GC



Analysis of Vitamin A in Edible oil

Group : Oils and Fat Products (11)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
1.	Mustard Oil	BDS 25:2015, Amendment no-1, 2020	1. Description	The material shall be clear, free from sediments, suspended foreign matter and separated water and shall have acceptable taste and odour.
			2. Moisture & insoluble impurities,% m/m	0.25 (Max)
			3. Ether insoluble impurities,%m/m	0.125(Max)
			4. Colour in ¼” cell on the lovibond scale, expressed as (Y+5R), not deeper than.	50
			5. Refractive index at 40 °C	1.461-1.469
			6. Relative density at 20/20°C	0.910-0.921
			7. Saponification value	168-184
			8. Iodine value	96-108
			9. Acid value (as KOH), mg/g	3.00 (Max)
			10. Unsaponifiable matter, % m/m	1.20 (Max)
			11. Allylthiocyanate, % m/m	0.60 (Max)
			12. Peroxide value, milliequivalents of oxygen per kg oil	10.00 (Max)
			13. Erucic acid, % m/m	50.00 (Max)
			14. Iron (as Fe), ppm	12.00 (Max)
			15. Arsenic (as As), ppm	0.10 (Max)
			16. Copper (as Cu), ppm	0.10 (Max)
			17. Lead (as Pb), ppm	0.10 (Max)
2.	Banaspati	BDS 804 : 2011& Fortification Act 2013	1. Description	The product when melted shall be clear, bright and free from sediment, unpleasant taste and smell.
			2. Moisture and volatile matter, % m/m	0.25 (Max)
			3. Ether insoluble matter %m/m	0.05 (Max)
			4. Free Fatty acid (as oleic acid),% m/m	0.25 (Max)
			5. Slip Melting point,°C, as estimated by the capillary tube method.	33.00–37.00
			6. Refractive Index at 40°C	1.4580 – 1.4620
			7. Unsaponifiable matter in the product,% m/m	1.25 (Max)
			8. Peroxide value (milli equivalents of oxygen per kg)	10.0 (Max)
			9. Vitamin A, mg/kg	15-30
			10. Nickel, mg/kg	1.5 (Max)
			11. Lead, mg/kg	0.1 (Max)

SI No.s	Product Name	BDS No.	Test Parameters	Standard Limit
3.	Fortified Soyabean Oil	BDS 1769: 2014(1 st Rev.) Amendment no-1, 2021	1. Description	The material shall be clear and free from adulterants, sediment, suspended and other foreign matter, separated water, and added colouring and flavouring substances. The material shall have acceptable taste and odour.
			2. Moisture & insoluble impurities, % m/m	0.10 (Max)
			3. Colour in 2.54 cm cell on the lovibond scale, expressed as (Y+5R), not deeper than.	7.5
			4. Refractive index at 40 °C	1.4650-1.4710
			5. Relative density at 20/20°C	0.919-0.925
			6. Saponification value, (as KOH), mg/g	189-195
			7. Iodine value	124-139
			8. Acid value (as KOH), mg/g	0.50 (Max)
			9. Unsaponifiable matter, %m/m	1.50 (Max)
			10. Peroxide value, milliequivalents of oxygen per kg oil	5.00 (Max)
			11. Flash point, Pensky-Martens °C	250.00 (Min)
			12. Vitamin A, mg/kg	15.00 – 30.00
			13. Lead (Pb), ppm	0.10 (Max)
			14. Arsenic (As), ppm	0.10 (Max)
			15. Cadmium (as Cd), ppm	1.00 (Max)
			16. Mercury (as Hg), ppm	0.25 (Max)
			17. Iron (as Fe), ppm	1.50 (Max)
			18. Copper (Cu), ppm	0.10 (Max)
4.	Fortified Edible Palm Oil	BDS 1770:2014 Amendment no-1, 2021	1. Description	The material shall be clear on melting and free from rancidity, sediment, suspended and other foreign matter.
			2. Moisture, %m/m	0.10 (Max)
			3. Insoluble impurities, %m/m	0.05 (Max)
			4. Colour in a 2.5 cm cell on the lovibond scale	Y=20, R=0.2
			5. Melting point °C (Open capillary slip method)	37.00 (Max)
			6. Free fatty acid (as palmitic), % m/m	0.25 (Max)
			7. Unsaponifiable matter, % m/m	1.20 (Max)
			8. Acid Value	0.5 (Max)
			9. Refractive index at 40 °C	1.4580—1.4590

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
			10. Relative density at 27/27°C	0.910—0.915
			11. Iodine value	53.00 (Min)
			12. Saponification value(as KOH), mg/g	190—209
			13. Peroxide value (milliequivalents of per oxide oxygen per kg)	8.00 (Max)
			14. Vitamin A, mg/kg	15-30
			15. Lead (Pb), ppm	0.10 (Max)
			16. Arsenic (As), ppm	0.10 (Max)
			17. Cadmium (as Cd), ppm	1.00 (Max)
			18. Mercury (as Hg), ppm	0.25 (Max)
			19. Iron (as Fe), ppm	1.50 (Max)
			20. Copper (Cu), ppm	0.10 (Max)
5.	Fortified edible sunflower oil	BDS 1773: 2016	1. Description	The material shall be clear and free from adulterants, sediment, suspended and other foreign matter, separated water, and added colouring and flavouring substances.
			2. Moisture & insoluble impurities,% m/m	0.10 (Max)
			3. Colour in 2.54 cm cell on the lovibond scale, expressed as (Y+5R), not deeper than.	5
			4. Refractive index at 40 °C	1.464-1.480
			5. Saponification value (as KOH),mg/g	188-194
			6. Iodine value	100-140
			7. Acid value (as .KOH), mg/g	0.5 (Max)
			8. Unsaponifiable matter, %m/m	1.5 (Max)
			9. Peroxide value, milliequivalents of oxygen per kg oil	5.0 (Max)
			10. Flash point, Pensky-Martens °C	250 (Min)
			11. Vitamin A, mg/kg	15 – 30
			12. Lead (Pb), ppm	0.1 (Max)
			13. Arsenic (As), ppm	0.1 (Max)
			14. Cadmium (as Cd), ppm	1.0 (Max)
			15. Mercury (as Hg), ppm	0.25 (Max)
			16. Iron (as Fe), ppm	1.5 (Max)
			17. Copper (Cu), ppm	0.1 (Max)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
6.	Fortified Palm Olein	BDS 1774: 2006, Amendment no-2, 2021	1. Description	The material shall be clear and free from rancidity, sediments, suspended & other foreign matter. It shall be free from admixture with other oils.
			2. Moisture & insoluble impurities, % m/m	0.10 (Max)
			3. Colour in a 2.5 cm on the lovibond scale, expressed as Y+5R not deeper than.	50
			4. Refractive index at 40 °C	1.4550-1.4610
			5. Saponification value(as KOH),mg/g	195-205
			6. Iodine value	56-61
			7. Acid value (as KOH),mg/g	0.50 (Max)
			8. Unsaponifiable matter,% m/m	1.20 (Max)
			9. Peroxide value, milliequivalents of oxygen per kg oil	10.00 (Max)
			10. Melting point, °C	24.00 (Max)
			11. Clarity	To pass the test
			12. Vitamin A, ppm	15.00 – 30.00
7.	Fortified Edible Rice Bran Oil	BDS 1886: 2014	1. Description	The material shall be clear and free from rancidity, adulterants, sediment, suspended and other foreign matter, separated water and added colouring & flavouring substance. It shall be free from admixture with other oils.
			2. Moisture & insoluble impurities, % m/m	0.10 (Max)
			3. Colour in 1” cell on the lovibond scale, expressed as(Y+5R), not deeper than	20
			4. Refractive index at 40 °C	1.4600-1.4700
			5. Specific gravity at 30/30 °C	0.910-0.920
			6. Saponification value	180-195
			7. Iodine value(Wijs)	90-105
			8. Peroxide value, milliequivalents of oxygen per kg oil	8.0 (Max)
			9. Acid value (as KOH), mg/g	0.50 (Max)
			10. Unsaponifiable matter, % m/m	3.50 (Max)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
			11. Flash point, Pensky-Martens °C	250.00 (Min)
			12. Vitamin A, mg/kg	15 – 30
			13. Lead (Pb), ppm	0.1 (Max)
			14. Arsenic (As), ppm	0.1 (Max)
			15. Cadmium (as Cd), ppm	1.0 (Max)
			16. Mercury (as Hg), ppm	0.25 (Max)
			17. Iron (as Fe), ppm	1.5 (Max)
			18. Copper (Cu), ppm	0.1 (Max)
8.	Mayonnaise	BDS 1503: 2011	1. Description	The product shall be a semi-solid product consisting essentially of edible vegetable oil, vinegar and hen's egg or egg yolk.
			2. Moisture, percent by mass,	0.1 (Max.)
			3. Total fat, percent by mass,	74.5 (Max.)
			4. Acidity (as oleic acid),% by mass,	0.25 (Max)
			5. Cholesterol, % by mass	0.7(Max)
			6. Saturated fat, % by mass,	13.5 (Max)
			7. Sodium Chloride (NaCl), % by mass	1.35 (Max)
			8. Ether insoluble matter,% by mass	0.05
			9. Peroxide value (milli equivalents of oxygen per kg)	10.0 (Max)
			10. Lead, mg/kg, Max.	0.1
			11. Arsenic, mg/kg, Max.	0.1
			12. Cadmium mg/kg, Max.	1
			13. Mercury mg/kg, Max.	0.25
			14. Copper, mg/kg, Max.	0.1
9.	Margarine	BDS CAC 32:2008	1.Description	Margarine is a food in the form of a plastic or fluid emulsion, which is mainly of the type water/oil, produced principally from edible fats and oils, which are not mainly derived from milk.
			2. Fat content, % m/m	80.00.00 (Min.)
			3. Water content, % m/m	16.00 (Max)
			4. Acid value of Extracted Fat (as KOH), mg/g	0.60 (Max)
			5. Peroxide value, milliequivalents of oxygen per kg oil	10.00 (Max)
			6. Slip Melting point at °C	34.00 (Max)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
			7. Beta-carotene	25.00 mg/kg (Max.)
			8. Annatto extracts(calculated as total bixin or norbixin)	20.00 mg/kg (Max.)
			9. Curcumin or Turmeric (calculated as total curcumin)	5.00 mg/kg (Max.)
			10. Beta-apo-8-carotenal	25 mg/kg (Max.)
			11.Methyl and ethyl esters of beta-apo-8' carotenic acid	25 mg/kg (Max.)
			12.Sorbic acid and its sodium, potassium and calcium salts	1000 mg/kg (Max.) Individually or in combination
			13.Benzoic acid and its sodium and potassium salts	—
			14. Iron(Fe)	1.5 mg/kg (Max.)
			15.Copper (Cu)	0.1 mg/kg (Max.)
			16. Lead (Pb)	0.1 mg/kg (Max.)
			17. Arsenic(As)	0.1 mg/kg (Max.)
10.	Virgin Coconut Oil	BDS 2015:2023, Amendment no-1, 2024	1. General Requirements	Virgin cocnut Oil Shall a) be fit for human consumption b) be free from foreign and rancid odour and taste c) have colour characteristic of designated product; d) be clear and free from adulterants, sediments, suspended or foreign matter and separated water and; e) be free from admixture with mineral or other oils of vegetable or animal origin.
			2. Colour 25 mm cell (Y+5R), not deeper than	0.1 R ≤ 0.5 Y
			3. Relative density at 30°C/30°C	0.915-0.920
			4. Iodine value (Wijs)	5.0-10.6
			5. Acid value	Not more than 0.6
			6. Saponification value	Not less than 250
			7. Unsaponifiable matter	Not more than 1.0%
			8. Peroxide value, meq/kg oil	< 3
			9. Refractive index	1.448 – 1.450
			10. Moisture and other volatile matter	0.20% (Max.)
			11. Total Plate Count, cfu/ml	<10
			12. Yeast and moulds, cfu/ml	<10
			13. Arsenic (As), mg/kg	≤ 0.1
			14. Lead (Pb), mg/kg	≤ 0.1
			15. Iron (Fe), mg/kg	≤ 5
			16. Copper (Cu), mg/kg	≤ 0.4
			17. Total Aflatoxin, Max. µg/kg	10

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
11.	Olive Oils and Olive Pomace Oils	BDS CXS 33:2023 [CXS 33-1981, Last Amended in 2021]	1. Free acidity, expressed as oleic acid	Extra virgin olive oil: not more than 0.8 grams per 100 grams
				Virgin olive oil: not more than 2.0 grams per 100 grams
				Ordinary virgin olive oil: not more than 3.3 grams per 100 grams
				Refined Olive Oil: not more than 0.3 grams per 100 grams
				Olive Oil: not more than 1.0 grams per 100 grams
				Refined Olive-pomace Oil: not more than 0.3 grams per 100 grams
				Olive-pomace Oil: not more than 1.0 grams per 100 grams.
			2. Wax content	Virgin olive oils: \leq 250 mg/kg
				Refined olive oil: \leq 350 mg/kg
				Olive oil: \leq 350 mg/kg
				Refined olive-pomace oil: $>$ 350 mg/kg
				Olive-pomace oil: $>$ 350 mg/kg
			3. Maximum difference between the actual and theoretical ECN 42 triglyceride content	Virgin olive oils: 0.2
				Refined olive oil: 0.3
				Olive oil: 0.3
				Olive-pomace oils: 0.5
			4. Maximum stigmastadiene content	Virgin olive oils 0.15 mg/kg
			5. Peroxide value, milliequivalents of active oxygen/kg oil	Virgin olive oils \leq 20
				Refined olive oil \leq 5
				Olive oil \leq 15
				Refined olive-pomace oil \leq 5
				Olive-pomace oil \leq 15
			6. Absorbency in ultra-violet K270	As per standard
			7. Moisture and volatile matter: maximum	Virgin olive oils 0.2 %
				Refined olive oil 0.1 %
				Olive oil 0.1 %
				Refined olive-pomace oil 0.1 %
				Olive-pomace oil 0.1 %

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
			8. Insoluble impurities: maximum level	Virgin olive oils 0.1 %
				Refined olive oil 0.05 %
				Olive oil 0.05 %
				Refined olive-pomace oil 0.05 %
				Olive-pomace oil 0.05 %
			9. Trace metals: maximum levels,Iron (Fe)	3 mg/kg
			10. Copper (Cu)	0.1 mg/kg
			11. Appearance at 20°C for 24 hours: Refined olive oil, olive oil, refined olive pomace oil, olive-pomace oil:	Limpid
			12. COMPOSITION CHARACTERISTICS: Saturated fatty acids at the 2-position in the triglyceride (sum of palmitic & stearic acids): Maximum level	Virgin olive oils 1.5 %
				Refined olive oil 1.8 %
				Olive oil 1.8 %
				Refined olive-pomace oil 2.2 %
			Olive-pomace oil 2.2 %	
			13. Relative density (20°C/water at 20°C):	0.910-0.916
			14. Refractive index (n _{20D})	Virgin olive oils, Refined olive oil 1.4677-1.4705
				Olive oil, Olive-pomace oils 1.4680-1.4707
			15. Saponification value (mg KOH/g oil)	Virgin olive oils, Refined olive oil 184-196
				Olive oil, Olive-pomace oils 182-193
			16. Iodine value (Wijs):	Virgin olive oils, Refined olive oil 75-94
				Olive oil, Olive-pomace oils 75-92
			17. Unsaponifiable matter, maximum level	Virgin olive oils, Refined olive oil 15 g/kg
				Olive oil, Olive-pomace oils 30 g/kg
			18. Absorbency in ultra-violet K232 (Absorbency in ultra- violet at 232 nm)	Extra virgin olive oil ≤ 2.504
				Virgin olive oil ≤ 2.604

Chemical Testing Wing

Group: Carbohydrate related products (33)



Sampling of Bakery Products



Analysis of Aflatoxin by ELISA



Heavy metal analysis by AAS



Acid value determination

Group : Carbohydrate related products (33)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
1.	Suji (Semolina)	BDS 190: 2016	1. Description	The material shall white to creamy white in colour and shall have a characteristic taste and smell. It shall be free from, musty odour insect and fungus infestation, rodent contamination, grit and other extraneous matter.
			2. Microscopic appearance	It shall be characteristic appearance.
			3. Moisture, % m/m	13.00 (Max)
			4. Total ash (on dry basis),%m/m	1.00 (Max)
			5. Acid insoluble ash (on dry basis),% m/m	0.05 (Max)
			6. Gluten (on dry basis),%m/m	6.00 (Min)
			7. Alcoholic acidity (as H ₂ SO ₄) in 90% alcohol, % m/m	0.10 (Max)
			8. Particle size	a) Small particle grade:
	i) All the material shall pass through 1.16 mm sieve. ii) Not more than 10% of the material shall be retained on 0.73 mm sieve. iii) Not less than 98% of the material shall be retained on 0.24 mm sieve.			
2.	Wheat Atta	BDS 380: 2007	1. Description	The sample shall have be in the form of powder having a characteristic taste and flavour. It shall be free from, insect, rodent or fungus infestation and other visible extraneous matter.
			2. Microscopic appearance	The material shall have the characteristic appearance
			3. Moisture, % m/m	13.00 (Max)
			4. Total ash (on dry basis),% m/m	2.00 (Max)
			5. Acid insoluble ash (on dry basis),% m/m	0.10 (Max)
			6. Gluten (on dry basis),% m/m	7.00 (Min)
			7. Crude fibre (on dry basis),% m/m	2.00 (Max)
			8. Alcoholic acidity (as H ₂ SO ₄),% m/m	0.16 (Max)
			9. Granularity	Min 99.8% shall pass through 600 micron BDS sieve.

Sl No.s	Product Name	BDS No.	Test Parameters	Standard Limit
3.	Maida	BDS 381: 2007	1. Description	The material shall have a characteristic taste and smell. It shall be free from, insect, fungus infestation, rodent contamination and other extraneous matter.
			2. Microscopic appearance	The material shall have the characteristic appearance
			3. Moisture, % m/m	13.00 (Max)
			4. Total ash (on dry basis),% m/m	0.70 (Max)
			5. Acid insoluble ash(on dry basis),% m/m	0.05 (Max)
			6. Gluten (on dry basis),% m/m	8.00 (Min)
			7. Titratable acidity(as H ₂ SO ₄) in 90% alcohol, % m/m	0.10 (Max)
			8. Granularity	No residue shall be left on 180 micron BDS sieve.
			9. Arsenic (as As), mg/kg	2.00 (Max)
			10. Lead (as Pb), mg/kg	2.00 (Max)
			11. Cadmium (as Cd), mg/kg	1.00 (Max)
			12. Nickel (as Ni), mg/kg	1.00 (Max)
			13. Tin (as Sn), mg/kg	5.00 (Max)
4.	Bread	BDS 382: 2016 (Amendment- 1,2018)	1. Description	The sample shall be baked product. The crust shall not be burned and shall be free from blisters, soot and foreign matter. It shall be uniform and golden to light brown in colour. The crumb shall be springy, with small pores uniformly distributed throughout and with thin cell walls. It shall be free from splits, large holes and lumps of flour or salt or any other evidence of incomplete mixing. The flavour shall be characteristic of fresh and has not objectionable flavour or taste.
			2. Average wt. in gm	Up to 400 g,- 5% but not more than 15 g
			3. Total solid content, %m/m	60.00 (Min)
			4. pH of the bread	5.0 to 6.0
			5. Acid insoluble ash (On dry basis), % m/m	0.10 (Max)
			6. Crude fibre (On dry basis), %m/m	0.5 (Max)
			7. Arsenic (as As),mg/kg	1.00 (Max)
			8. Lead (as Pb) ,mg/kg	2.00 (Max)
			9. Cadmium (as Cd) ,mg/kg	1.0 (Max)
			10. Nickel (as Ni) ,mg/kg	1.00 (Max)
			11. Tin (as Sn) ,mg/kg	5.00 (Max)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
5.	Bread Rolls	BDS 1074:2017 Amendment- 1, 2018	1. Description	The material shall consist of hard crusty rolls made from yeast risen dough. The material shall be made of yeast risen dough containing not less than 10 percent sugar or dextrose and not less 8 percent of shortening or fat by mass of the flour used. The crumb shall be free from doughly spots or lumps or indications of 'rope'.
			2. Total solid content, percent by mass, min.	65
			3. pH of the bread rolls	5.3 to 6.0
			4. Acid insoluble ash (on dry basis), percent by mass, Max.	0.1
			5. Crude fibre (on dry basis),% by mass,	0.5 (Max.)
			6. Arsenic (as As), mg/kg, Max.	0.2
			7. Lead (as Pb), mg/kg, Max.	0.2
6.	Biscuits	BDS 383: 2001	1. Description	The biscuits shall be properly baked, crisp. It shall have a uniform texture and appearance. It shall be free from soapy or bitter after taste, fungus and insect infestation rancid taste and odour.
			2. Moisture, % m/m	5.00 (Max)
			3. Acid insoluble ash (on dry basis), % m/m	0.05 (Max)
			4. Edible fat content, % m/m	5.00 (Min)
			5. Acidity of extracted fat (as oleic acid),% m/m	1.00 (Max)
			6. Arsenic (as As), mg/kg	1.00 (Max)
			7. Lead (as Pb), mg/kg	2.00 (Max)
			8. Cadmium (as Cd), mg/kg	1.00 (Max)
			9. Nickel (Ni), mg/kg	1.00 (Max)
			10. Tin (as Sn), mg/kg	5.00 (Max)
			11. Organoleptic test	
			a) Marks obtained (out of 24)	7(Min)
b) Over all evaluation	—			

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
7.	Wafer Biscuits	BDS 1001: 2010	1. Description	Wafer biscuits shall be suitable baked and shall not show signs of under or over baking. They shall be crisp, crunchy and light in texture. They shall have an agreeable odour typical of well baked biscuits and be free from soapy or other objectionable taste, insect and fungus infestation. They may be hollow flat or in the shape of cone. The filled wafer Biscuit, two or more plain wafers may be sandwiched with filling in between. The filling may be of Cream jam, Fluid Jelly, Caramel or the like
			2. Moisture, %m/m	6.00 (Max)
			3. Filling material, % by weight of the filled wafer	15.00 (Min)
			4. Acid insoluble ash (on dry basis), %m/m	0.05 (Max)
			5. Acidity of extracted fat (as oleic acid), % m/m	1.00 (Max)
			6. Organoleptic test	
			a) Marks obtained (out of 24)	7 (Min)
b) Over all evaluation	—			
8.	Macaroni, Spaghetti and Vermicelli	BDS 384: 2017	1. Description	The material should be obtained by extrusion and may be in the form of tubular rods, smooth or corrugated. The material shall be of good characteristic colours, flavour and odour and shall be free from rancidity, mustiness, bitterness or any other undesirable taste or odour. It shall also be free from impurities, any foreign matter, cracks, flaws, mould, insect infestation or other spoilage. The material shall retain its shape and show no signs of disintegration and shall swell appreciably when plunged into vigorously boiling water and boiled for 10 minutes. The material shall be smooth to the touch and shall not contain any added colouring matter.
			2. Moisture, % m/m	11.00 (Max)
			3. Total ash (on dry basis) % m/m	0.7 (Max)
			4. Acid insoluble ash (on dry basis) % m/m	0.05 (Max)

Sl No.s	Product Name	BDS No.	Test Parameters	Standard Limit
			5. Total protein (N X5.7) (on dry basis), % m/m	10.0 (Min)
			6. Cooking test: Total solids in gruel, % m/m	8.0 (Max)
			7. Free acidity (ml of 1 N, NaOH solution per 100 g of product)	4.0 (Max)
			8. Total Carbohydrates, % m/m	78.3 (Min)
9.	Lozenge	BDS 490: 2014	1. Description	The lozenges shall be hard but smooth eating and also have a good snap. It shall not be damp or fragile. It shall be of a pleasant taste and readily dissolve in the mouth. It shall be free from adulterant matter.
			2. Moisture, % m/m	3.00 (Max)
			3. Sulphated ash, % m/m	3.00 (Max)
			4. Acid insoluble ash, % m/m	0.20 (Max)
			5. Sucrose, % m/m	85.00 (Min)
			6. Sulphur dioxide, mg/kg	350.00 (Max)
			7. Arsenic (as As), mg/kg	1.00 (Max)
			8. Lead (as Pb), mg/kg	2.00 (Max)
			9. Copper (as Cu), mg/kg	5.00 (Max)
			10. Zinc (Zn), mg/kg	5.00 (Max)
			11. Tin (as Sn), mg/kg	5.00 (Max)
10.	Toffee	BDS 1000: 2001	1. Description	The material shall have attractive colour shape and size. It shall have a pleasant flavour and taste and shall have bite ranging from hard and chewy to soft eating. It shall be free from dirt, filth, adulterants and harmful ingredients.
			2. Moisture, % m/m	8.00 (Max)
			3. Ash sulphated, % m/m	2.50 (Max)
			4. Acid insoluble ash, %m/m	0.20 (Max)
			5. Reducing sugar (Calculated as dextrose),% m/m	10.00 (Max)
			6. Sucrose, % m/m	65.00 (Max)
			7. Fat, (on dry basis), % m/m	4.00 (Min)
			8. Arsenic (as As), mg/kg	1.00 (Max)
			9. Lead (as Pb) , mg/kg	2.00 (Max)
			10. Cadmium (as Cd), mg/kg	1.00 (Max)
			11. Nickel ((Ni), mg/kg	1.00 (Max)
			12. Tin (as Sn) , mg/kg	5.00 (Max)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
11.	Chewing Gum,ball gum and Bubble Gum	BDS 1498: 2012	1. Description	The product shall have acceptable shape and size with colours and odours. It shall be free from dirt or harmful foreign matter. It shall not be brittle but shall be suitable for chewing.
			2. Gum base content, % m/m	14.00 (Min)
			3. Moisture, % m/m	3.50 (Max)
			4. Sulphated ash, % m/m	11.50 (Max)
			5. Acid insoluble ash, % m/m	3.50 (Max)
			6. Reducing sugar, % m/m	5.50 (Min)
			7. Sucrose, % m/m	60.00 (Max)
12	Chocolate	BDS CAC 87:2008	1.Description	Chocolate & Chocolate Products intended for human consumption shall be prepared from cocoa & cocoa materials with sugars and may contain sweeteners,milk products, flavouring substances and other food ingredients.
			2. Fat-free Cocoa Solids (On dry basis),%m/m	2.50 (Min)
			3. Total Cocoa Solids (On dry basis)% m/m	25.00 (Min)
			4. Milk Fat (On dry basis) % m/m	2.5-3.5
			5. Total Milk Solids, (On dry basis),%m/m	14-Dec
			6. Fat-free Cocoa Solids (On dry basis) % m/m	2.50Min)
13.	Honey	BDS 1039: 2022	1. Description	The color of honey varies from nearly colorless to dark brown. The consistency can be fluid, viscous or partly to entirely crystallized. The flavor and aroma vary but are derived from the plant origin.
			2. Specific gravity at 27°C	1.35 (Min)
			3. Moisture, percent by mass	23.0 (Max)
			4. Fructose-glucose ratio	0.95 – 1.45
			5. Total reducing sugar, % by mass	65.00 (Min)
			6. Sucrose, percent by mass	5.00 (Max)
			7. Ash, percent by mass	0.50 (Max)
			8. Acidity (expressed as formic acid), percent by mass	0.20 (Max)
			9. Fiech's tes	Negative
			10. Hydroxymethyl furfural (HMF), mg/kg	80.00 (Max)
			11. Total count of pollens and plants elements/g of honey	5000 (Min)
			12. Optical density, at 660 nm, percent	0.30 (Max)
			13. Diastase activity, Schade units	3.00 (Min)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
14.	Noodles	BDS 1106: 2015	1. Description	The material shall be precooked by steaming or frying in edible oil. It shall be free from dirt, foreign matter and insects.
			2. Moisture, % m/m	10.00 (Max)
			3. Degree of gelatinization, % m/m	80.00 (Min)
			4. Cooking time in minutes	6.00 (Max)
			5. Arsenic (as As), mg/kg	1.00 (Max)
			6. Lead (as Pb), mg/kg	2.00 (Max)
			7. Cadmium (as Cd), mg/kg	1.00 (Max)
			8. Nickel (Ni), mg/kg	1.00 (Max)
			9. Tin (as Sn), mg/kg	5.00 (Max)
15.	Instant Noodles	BDS 1552: 2015	1. Description	Fried noodles shall be precooked by steaming and or frying in edible oil. It shall be free from dirt, foreign matter and insects. It shall possess the characteristic flavour and odour.
			2. Moisture, % m/m	10.00 (Max)
			3. Acid value (as KOH),mg/g	2.00 (Max)
			4. Protein content(Nx5.7) on dry basis,%m/m	8.50 (Min)
			5. Cooking time in minutes	4.00 (Max)
			6. Arsenic (as As), mg/kg	1.00 (Max)
			7. Lead (as Pb), mg/kg	2.00 (Max)
			8. Cadmium (as Cd), mg/kg	1.00 (Max)
			9. Nickel (Ni), mg/kg	1.00 (Max)
			10. Tin (as Sn), mg/kg	5.00 (Max)
16.	Chips and Crackers	BDS 1556: 2017. Amendment no-1, 2019.	1. Description	The shape and size of the sample shall be reasonably uniform. The sample shall be fully cooked, have acceptable colour, texture and uniform surface, free from blisters and excessive brown pigmentation but not be excessively oily, rancid bitter or have other objectionable odours and taste. The sample shall be free from insects, insect residues, rodent hair and fungal infection and any foreign and extraneous matter.
			2. Moisture, percent by mass,	4.0 (Max.)
			3. Fat (on dry basis), %m/m	35.0 (Max.)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
			4. Peroxide value,meq oxygen/kg fat	10.0 (Max.)
			5. Acid value	2.0 (Max.)
			6. Salt (as NaCl), percent by mass	2.0 (Max.)
			7. Protein (On dry basis), %m/m	6.0 (Min.)
			8. Total ash(on dry basis),% by mass	4.0 (Max.)
			9. Lead, mg/kg	0.1 (Max.)
			10. Arsenic, mg/kg	0.1 (Max.)
			11. Total viable bacterial count,cfu per g	20000.0 (Max.)
			12. Total coliform count,cfu per g	10.0 (Max.)
			13. Yeasts & mould count, cfu per g,	50(Max)
17.	Chanachur	BDS 1564: 2016	1. Description	The product shall be free from foreign matters, dirt, rancidity, fungal growth and other signs of Spoilage.
			2. Moisture, %m/m	2.50 (Max)
			3. Total ash (on dry basis) , %m/m	3.00 (Max)
			4. Acid insoluble ash(on dry basis) , %m/m	0.05 (Max)
			5. Fat (ether extract)(on dry basis) , %m/m	35.00 (Max)
			6. Acid value of extracted fat (as KOH), mg/g	1.50 (Max)
			7. Chloride (as NaCl), %m/m	1.50 (Max)
			8. Peroxide value,	10.0(Max)
			9. Aflatoxin, mg/kg	Nil
			10 Iron (as Fe) , mg/kg	100.00 (Max)
			11. Lead, mg/kg	0.50 (Max)
			12. Arsenic, mg/kg	0.10 (Max)
18.	Cake	BDS 1574: 2021	1. Description	The sample shall be suitably baked with due allowance for heat penetration of the edges. It shall not show signs of under or over baking. Cake shall be moist, uniform in texture with even distribution of added ingredients like peel and fruits and shall be spongy. It shall have the colour, texture, flavour and aroma characteristic of the typical well baked cakes and shall be free from any evidence of rancidity or other objectionable tastes, insect or fungus and mould infestation.
			2. Moisture, %m/m	15-25

Sl No.s	Product Name	BDS No.	Test Parameters	Standard Limit
			3. Acid insoluble ash (on dry basis), % m/m	0.10 (Max)
			4. Acidity of extracted fat (as oleic acid), % m/m	1.00 (Max)
			5. Lead, mg/kg,	0.20(Max)
			6. Arsenic, mg/kg,	0.10(Max)
			7. Salmonella in 25g	Absent
			8. E. coli, per g	Absent
			9. Yeasts and mould count, cfu per g,	50 (Max).
			10.Net weight, in gram	Upto 400 g, Tolerance \pm 5% but not more than 15 g
19.	Decorated Cake	BDS 2008: 2022	1.Description	Decorated cake is a cake that involves covering & glazing a plain sponge cake with some form of icing, frosting, fondent & other edible decorative elements to improve the flavor & richness as well as make it visually appealing.It is free from extraneous, abnormal flavours or rancid odours & have pleasant & acceptable taste.
			2.Moisture %m/m, Max	40
			3.Crude protein (N X 6.25) on dry basis, Percent by mass	5.0 (Min)
			4.Total Fat, % by mass	40.00 (Max)
			5. Acidity of extracted fat (as oleic acid), mg KOH/g	1.00 (Max)
			6. Acid insoluble ash (on dry basis),	0.10 (Min)
			7. Total Ash (on dry basis), % by mass	1.00 (Max)
			8. Crude Fiber (on dry basis), % by mass	1.00 (Max)
			9. Arsenic, mg/kg	0.15 (Max)
			10.Lead, mg/kg	0.20 (Max)
			11. Yeast and mould count cfu per g	50.00 (Max)
			12. Total plate count cfu/g	1000.0(Max)
20.	Lachsa Shemai	BDS 1620: 2020	1. Description	The sample shall be in the form of fibrous coil or fibrous. It shall be fried in vegetable edible oils or butter oil/ghee or banaspati. It shall be free from mould, off flavor, visible impurities and insect infestation or other spoilage.
			2. Moisture, % m/m	4.00 (Max)
			3. Total ash (on dry basis), % m/m	0.50 (Max)

Sl No.s	Product Name	BDS No.	Test Parameters	Standard Limit
			4. Acid insoluble ash (on dry basis), % m/m	0.05 (Max)
			5. Total Fat (Ether extract) (on dry basis), % m/m	35.00 (Max)
			6. Acidity of extracted fat (as oleic acid) (on dry basis), % m/m	0.50 (Max)
			7. Total protein (Nx5.7) (on dry basis), % m/m	9.00 (Min)
			8. Total viable bacteria count, cfu per g	30000.0 (Max)
			9. Total coliform count, cfu per g	10.0 (Max)
			10. Yeasts and mould count, cfu per g	50 (Max)
			11. Lead, mg/kg	0.1 (Max)
21.	Muri (Puffed Rice)	BDS 1796: 2008	1. Description	Muri shall be in the form of puffed having a characteristics taste & flavour. It shall be free from rancidity, insect, rodent or fungus infestation. It shall also be free from fermented, musty or other objectionable odor. It shall not have adulterants & other extraneous matter.
			2. Moisture, % by mass	5.0 (Max)
			3. Total ash, (on dry basis), % by mass	2.0 (Max)
			4. Acid insoluble ash (on dry basis), % by mass	0.15 (Max)
			5. Sodium chloride, % by mass	2.0(Max)
			6. Acidity (as H ₂ SO ₄), % by mass	0.1(Max)
			7. Bulk density, kg/Hecto Litre	7.0(Max)
			8. pH	6.5 (min)
			9. Protein, % by mass	7.0(min)
			10. Fat, % by mass	1.0 (Max)
			11. Crude fiber (on dry basis) % by mass	0.30 (Max)
			12. Urea	Nil
			13. Hydrogen Sulphite	Nil
			14. Arsenic (as As),mg/kg	1.00 (Max)
			15. Lead (as Pb) ,mg/kg	2.00 (Max)
			16. Cadmium (as Cd) ,mg/kg	1.00 (Max)
			17. Nickle (Ni) ,mg/kg	1.00 (Max)
			18. Tin (as Sn) ,mg/kg	5.0Max)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
22.	Edible Jell	BDS 1801: 2015	1. Soluble solids inclusive of added sugar at 20°C, % m/m	25.00 (Min)
			2. Acidity (as anhydrous citric acid), % m/m	0.35 (Max)
			3. pH	4.5 (Max)
			4. Sodium benzoate, mg/kg	1000.00 (Max)
			5. Arsenic (as As), ppm	1.10(Max)
			6. Lead (as Pb), ppm	0.20 (Max)
			7. Tin (as Sn), ppm	25.00 (Max)
			8. Copper (as Cu), ppm	0.2 (Max)
			9. Zinc (as Zn), ppm	10.00 (Max)
			10. Iron (as Fe), ppm	15.00 (Max)
			11. Score point	85.00(Min)
			12. Total plate count per ml.	50
			13. Total coliform count per ml.	Nil
			14. Mould count per ml.	Nil
23.	Ice-Lolly	BDS 1847: 2011, Amendment-1, 2021	1. Description	The product shall have a pleasant odor and flavor. It shall be attractive in appearance, smooth in texture and of a uniform consistency, has no apparent ice crystals. It shall be free from dirt and extraneous matter.
			2. Mass in gram/Liter	1050 (Min)
			3. Total solids, %m/m	15.00 (Min)
			4. Sugar/Solid Ingredients,% m/m	13.00 (Min)
			5. Acidity(as citric acid) % m/m	0.28(Max)
			6. Total colony counts cfu/gm (Standard plate count)	1000.00 (Max)
			7. Total coliform count/0.1 gm	Nil
			8. Arsenic (as As) mg/kg	0.01(Max)
			9. Lead(as Pb) mg/kg	0.01(Max)
			10. Cadmium(as Cd) mg/kg	0.3(Max)
			11. Nickel (as Ni) mg/kg	1.0(Max)
24.	Potato Chips	BDS 1927:2017, Amendment-1, 2021	1. Description	The shape and size of the sample shall be reasonably uniform. , have acceptable colour, texture and uniform surface , free from blisters and excessive brown pigmentation but not be excessively oily, rancid bitter or have other objectionable odours and taste. The sample shall be free from insects, insect residues, rodent hair and excreta and fungal infection and any foreign and extraneous matter.

Sl No.s	Product Name	BDS No.	Test Parameters	Standard Limit
			2. Moisture, percent by mass,	3.0 (Max.)
			3. Acid insoluble ash (on dry basis), % m/m	0.15(Max)
			4. Fat (on dry basis), % m/m	35.0 (Max.)
			5. Acid value of extracted fat,mg KOH/g,	2.0(Max)
			6. Peroxide value,meq oxygen/kg fat	10.0 (Max.)
			7. Salt (as sodium chloride), % by mass	2.0(Max.)
			8. Total ash (on dry basis), % by mass	4.0 (Max.)
			9. Lead, mg/kg	0.5 (Max.)
			10. Arsenic, mg/kg	0.1 (Max.)
			11. Total viable bacterial count,cfu per g	50000.0 (Max.)
			12. Total coliform count,cfu per g	10.0 (Max.)
			13. Salmonella in 1g	Absent
			14. Shigella in 1 g	Absent
			15. E.coli in 1g	Absent
25.	Corn Flakes	BDS 1957: 2018	1. Description	Corn flakes shall be tender and crisp, reasonably uniform in size, of good flavour and golden brown in colour. Corn flakes shall possess good characteristic taste and odour and shall be free from rancid, musty, sour and other undesirable tastes or odour. Corn flakes shall be free from living insects and moulds and shall be free from dead insects, insect fragments and rodent contamination.
			2.Moisture	7.50 (Max)
			3.Total ash (On dry basis) excluding Sodium chloride, % m/m	1.0(Max)
			4.Acid insoluble ash (On dry basis) % m/m	0.05 (Max)
			5.Crude Fibre% m/m	2.0 (Max)
			6.Alcoholic Acidity (as H ₂ SO ₄) % m/m	0.10 (Max)
			7.Crude protein (N×6.25) (On dry basis)%m/m	5.0 (Min)
			8.Total aflatoxin (ppb)	10.0 (Max)
			9. Deoxynivalenol (DON), µg/kg	1000(Max)
			10. Zearalenone, µg/kg	100(Max)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
			11. Fumonisin ,µg/kg	800(Max)
			12. Acrylamide, µg/kg	400(Max)
			13. Lead (Pb), ppm	0.2(Max)
			14. Cadmium (Cd), ppm	0.1 (Max)
			15. Coliform bacteria, cfu/g	10(Max)
			16. Salmonella Sp., cfu/g	absent
			17. E. Coli count/g	absent
			18. Staphylococcus aureus, cfu/30g	absent
			19. Mould/Yeast, cfu/g	<50
26.	Oats	BDS 1960:2019	1. Description	The material shall be made from sound, hulled oats. It shall be in the form of thin flakes of uniform size, having uniform light creamy colour and an odour characteristic of good oats. It shall be free from rancid, musty, fermented or other undesirable taste and odour; added flavouring or colouring agents, or other adulterants; and insect or fungus infestation.
			2. Oats Content, % m/m.	98.0 (Min)
			3. Unhulled Oats, % m/m,	1.0(Max)
			4. Foreign Matter (Food grains other than oats), % m/m.	2.0(Max)
			5. Not food grains, % m/m	0.1(Max)
			6. Flakes Powder(Sieve 850µ)	12.5(Max)
			7. Moisture, percent by mass, Max.	14.0(Max)
			8. Total ash (on dry basis), % m/m	2.00(Max)
			9. Acid insoluble ash (on dry basis), % m/m	0.10(Max)
			10. Crude protein (N X 6.25) (on dry basis), % m/m.	10.00(Min)
			11. Alcoholic acidity (as H ₂ SO ₄) %m/m.	0.40(Max)
			12. Uric acid, mg/kg,	100(Max)
			13. Total aflatoxin (mcg/kg),	10.0(Max)
			14. Total dietary fibre (g/100 g),	10.0(Min)
			15. Lead (Pb), ppm	0.2(Max)
			16. Cadmium (Cd), ppm	0.1(Max)
			17. Standard plate count	< 10000 CFU/g
			18. Yeast and mould	< 500 CFU/g
			19. E. Coli spp.	< 3 MPN/g

Sl No.s	Product Name	BDS No.	Test Parameters	Standard Limit
27.	Malt Based Food	BDS 1995: 2022	1.Description	The sample is sound un-infested & free from insect fragments rat excreata & fungal infested grains or any other type insect or fungal damage.
			2.Moisture % m/m	6.00(Max)
			3.Total protein (N X 6.25),% m/m	7.00 (Min)
			4.Acid insoluble ash (in dilute HCl) % m/m	0.1 (Max)
			5.Alcoholic acidity (expressed as H ₂ SO ₄ with 90 percent alcohol, on dry basis)	0.3 (Max)
			6.Solubility, % m/m	85.0 (Min)
			7.Lead (as Pb), mg/kg	0.20 (Max)
			8.Arsenic (as As), mg/kg	0.15 (Max)
			9.Cadmium (as Cd) , mg/kg	0.10 (Max)
			10.Total Aflatoxin, ppb	0.50 (Max)
			11.Melamine, ppm	2.50 (Max)
			12. Total plate count per g	50,000 (Max)
			13.Coliform count per g	10 (Max)
			14.Yeast and mould count per g	100 (Max)
			15. E. Coli in 10g	Absent
			16. Salmonella in 25g	Absent
28.	Roti (Flat bread/ Tortilla)	BDS 1998: 2022	1.Description	Roti (flat breadortilla) shall: a) be free from extraneous and foreign matter;b) be free from abnormal flavours or rancid odours;c) have a homogeneous crust and free from over burned; andd) have a pleasant and characteristic taste.
			2.Moisture, %m/m	25.00(Max)
			3.Acid insoluble ash (on dry basis), % m/m	0.50 (Max)
			4.Alcoholic Acidity (as H ₂ SO ₄) with 90% alcohol, % m/m	0.10 (Max)
			5.Crude fibre (on dry basis), %m/m	4.00 (Max)
			6.Arsenic(as As), mg/kg	0.15 (Min)
			7.Lead (Pb), mg/kg	0.20 (Max)
			8.Cadmium (as Cd), mg/kg	0.20 (Max)
			9.Yeast and mould, CFU/g	50.00 (Max)
			10.Total plate count, per ml, CFU/g	1000 (Max)
			11.Total coliform count per ml, CFU/g	Absent
			12.Salmonella spp in 25 g	Absent
			13.E. Coli per g	Absent

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
29.	Refined Sugar	BDS138:2006 (2 nd Rev.) Amendment-1, 2008	1. Description	The material shall be crystalline white, odourless and free from dirt and other extraneous matter.
			2. Moisture, % m/m	0.06 (Max)
			3. Sucrose, % m/m	99.70 (Min)
			4. Reducing Sugar, % m/m	0.05 (Max)
			5. Colour, ICUMSA, Unit	50.0 (max)
			6. Sulphated ash, % m/m	0.05 (Max)
			7. Sulphar di oxide, in ppm	Nil
			8. Hydrose, in ppm	Less than 10
			9. Hydrogen per oxide, in ppm	Less than 03
30.	Sugar	BDS CXS 212:2022	1.Description	The sample shall be purified and crystalline sucrose.
			2.Polarization (as socrose content), % m/m	Not less than 99.5
			3.Invert sugar content, % m/m	≤ 0.10
			4.Loss on drying, % m/m	≤ 1.00
			5.Sulphur dioxide, mg/kg	70.0 (Max)
			6.Colour :ICUMSA, units	≤ 150.0
			7.Conductivity Ash	≤ 0.10
31.	Sucralose, Food Grade	BDS 1933: 2017	1.Description	Sucralose is availabe of white to off-white, practically odourless and crystalline powder.
			2.Assay, % by Mass on an anhydrous basis	98-102
			3.Sulphated ash,% by Mass, Max	0.7
			4.Triphenylphosphine Oxide, mg/kg,	150 (Max)
			5.Methanol, % by Mass, Max	0.1
			6.Water, % by Mass, Max	2
			7. Lead (as Pb), mg/kg Max	1

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
32.	Quick Frozen French Fried Potatoes	BDS 1997: 2022	1. Moisture, percent by mass, a) For shoestring, medium & Thick cut styles b) for extra Large & Others	a) 76.0 (Max.)
				b) 78 (Max.)
			2. Free fatty acid (on dry basis),%m/m	1.5 (Max.)
			3. Peroxide value,meq oxygen/kg fat	10.0 (Max.)
			4. Total viable bacterial count,cfu per g	20000.0 (Max.)
			5. Total coliform count,cfu per g	10.0 (Max.)
			6. Yeasts & mould count, cfu per g,	50(Max)
			7. Lead, mg/kg	0.1 (Max.)
33.	Pastry	BDS 1996: 2022	8. Arsenic, mg/kg	0.1(Max.)
			1. Moisture, %m/m	25.0 (Max)
			2. Crude Protein (N*6.25) (on dry basis), %m/m	5.0 (Min)
			3. Total ash (on dry basis) %m/m	1.0 (Max)
			4. Acidity of extracted fat (as oleic acid),%m/m	1.00 (Max)
			5. Lead, mg/kg	0.2 (Max)
			6. Arsenic, mg/kg	0.15 (Max)
			7. Salmonella in 25gm	Absent
			8. E .Coli, Per gm	Absent
9. Yeast & Mould Count cfu per gm	50 (Max)			

Chemical Testing Wing

Group: Feed Products (3)



Poultry feed and Fish Feed



Digestion of protein



Sample Digestion for trace element analysis by microwave digester



On going process of trace element analysis by ICP-OES

Group:Feed Products (3)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
1.	Poultry Feed	BDS 233: 2019	1. Moisture, % m/m	12.00 (Max)
			2. Dry Matter, % m/m	88.00 (Min)
			3. Acid insoluble ash (on dry basis), % m/m	3.00 (Max)
			4. Salt, (on dry basis), % m/m	0.50 (Max)
			5. pH	6.8-8.0
			6. Crude Protein (on dry basis), % m/m	21.20 (Min)
			7. Phosphorous (Total) (on dry basis), % m/m	0.45 (Min)
			8. Calcium(on dry basis), % m/m	0.90 (Min)
			9. Arsenic (as As), mg/kg	2.00 (Max)
			10. Cadmium (as Cd), mg/kg	0.50 (Max)
			11. Chromium(as Cr), mg/kg	0.40 (Max)
			12. Lead(as Pb), mg/kg	5.00 (Max)
			13. Mercury(as Hg), mg/kg	0.10 (Max)
			14. Aflatoxin, mg/kg	0.02Max
2.	Fish Feed	BDS 1915: 2022	1. Moisture, % m/m	12.00 (Max)
			2. Protein, (on dry basis) % m/m	25.00 (Min)
			3.Fat/Oil, (on dry basis) % m/m	5.00 (Min)
			4. Carbohydrate, (on dry basis),% m/m	38.00 (Max)
			5. Fiber, (on dry basis) % m/m	8.00 (Max)
			6. Ash, (on dry basis) % m/m	20.00 (Max)
			7. Calcium, (on dry basis) % m/m	1.90 (Max)
			8. Phosphorus, (on dry basis) % m/m	0.5 (Min)
			9. Arsenic(As) , mg/kg	10.0 (Max)
			10. Cadmium (Cd) , mg/kg	1.0 (Max)
			11. Chromium (Cr) , mg/kg	2.0 (Max)
			12. Lead (Pb) , mg/kg	5.0 (Max)
			13. Mercury (Hg) , mg/kg	0.50 (Max)
			14. Aflatoxin	0.04Max
3.	Wheat Bran	BDS 997: 2006	1. Description	The material shall be free from lumps, dirt, insect, fungus infestation & rodent contamination.
			2. Moisture, % m/m	13.00 (Max)
			3. Crude protein (on dry basis), % m/m	15.50 (Min)
			4. Crude fat (on dry basis), % m/m	4.00 (Max)
			5. Crude fibre (on dry basis),% m/m	12.00 (Max)
			6. Total ash (on dry basis),%m/m	5.50 (Max)
			7. Particle size (Coarse)	Max 60% of the material shall pass through 600 micron sieve.

Chemical Testing Wing

Group-6: Water and Beverages Product (12)



Water and Beverages samples



Microbial colony counting



Carbonation gas volume measurement of Beverages by beverage analyser



Pesticide Residue (Aldrin-Dieldrin) of water by GC-MS

Group:Water and Beverages Product (12)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
1.	Soluble Coffee Powder	BDS 763: 2016, Amendment-1, 2020	1. Description	The product shall be in the form of a free flowing powder or shall be in the agglomerated form (granules) having the colour, taste and flavour characteristic of coffee. It shall be free from impurities or any other added substances
			2. Moisture , % m/m	4.0(Max)
			3. Total ash (On dry basis),% m/m	12.0 (Max)
			4. Caffeine content (On dry basis), % m/m	2.8 (Min)
			5. Solubility in boiling water (not less than 95°C)	Dissolve readily in 30 s with moderate stirring.
			6. Solubility in cold water at (16±2)°C	Soluble with moderate stirring in 3 minutes.
			7. Copper (as Cu), mg/kg	30.00 (Max)
			8. Cup Test (On the basis of the combined score of powder and liquor qualities)	Excellent (31 and above) Good (21-30) Poor (16-20) Unacceptable (Below 10)
2.	Roasted and Ground Coffee	BDS 805: 2016	1. Description	The material shall be prepared only from cured coffee beans which are properly cleaned and are free from extraneous matter, husk pieces and insect infestation.
			2. Moisture , % m/m	4.0 (Max)
			3. Total ash (On dry basis), % m/m	3.0-6.0
			4. Acid insoluble ash (On dry basis), % m/m	0.10 (Max)
			5. Water soluble ash (On dry basis), % m/m	65.0 (Min)
			6. Alkalinity of soluble ash in ml of 0.1N HCl per gm of material (On dry basis)	3.5-5.0
			7. Water soluble matter (On dry basis), % m/m	26.0-35.0
			8. Caffeine (On dry basis), % m/m	1.0 (Min)
			9. Petroleum ether extract (On dry basis), % m/m	8.5 (Min)
			10. Cup Test	Fine (16-20), Good (12-15), Fair (9-11), Failing off (7-8), Poor (0-6)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
3.	Roasted Coffee-Chicory Powder	BDS 806: 2016	1. Description	The product shall be in the form of a free flowing powder having the colour, taste and flavour characteristic of coffee-chicory powder. It shall be free from impurities or any other added substances.
			2. Moisture , % m/m	5.0(Max)
			3. Total ash (On dry basis),% m/m	3.00-7.50
			4. Acid insoluble ash (On dry basis), % m/m	0.6(Max)
			5. Water soluble matter (On dry basis),% m/m	30.0-50.0
			6. Caffeine content (On dry basis), % m/m	0.6 (Min)
			7. Cup Test	Fine (16-20) , Good (12-15) ,Fair (9-11), Failing off (7-8), Poor (0-6)
4.	Carbonated Beverage	BDS 1123:2022	1. Description	The sample shall have a well balanced and pleasant flavour. It shall be free from off-flavours, off-odours, insect and other extraneous matter.
			2. Sugar content in Degree Brix, at 20°C	4.00 (Min)
			3. Arsenic, mg/kg	0.1 (Max)
			4. Lead, mg/kg	0.5 (Max)
			5. Copper ,mg/kg	1.50 (Max)
			6. Caffeine, mg/l	145 (Max)
			7. Benzoic Acid, mg/l	200.0 (Max)
			8. Sulphur dioxide, mg/l	70.00 (Max)
			9. Sorbic acid, mg/l	500.00 (Max)
			10. Carbonation, Gas volume	1.0 (Min)
			11. Alcohol content	Nil
			12. Total plate count/ml	50 (Max)
			13. Yeast and mould count/ml	Absent
			14. Coliform count, in 100 ml	Absent
			15. Salmonella	Absent

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
5.	Packaged Drinking Water	BDS 1240:2021	1. Colour, Hazen Unit	5 (Max)
			2. Turbidity, NTU	5 (Max)
			3. Taste	Unobjectionable
			4. Odour	Agreeable
			5. pH value	6.0-8.5
			6. Total hardness (as CaCO ₃), mg/L	300.00 (Max)
			7. Iron (as Fe), mg/litre	0.30 (Max)
			8. Chloride (as Cl), mg/litre	250.00 (Max)
			9. Total dissolved solids, mg/litre	500.00 (Max)
			10. Calcium (as Ca), mg/litre	75.00 (Max)
			11. Sodium (as Na), mg/litre	200.00 (Max)
			12. Copper (as Cu), mg/litre	1.00 (Max)
			13. Manganese (as Mn), mg/litre	0.5 (Max)
			14. Magnesium (as Mg), mg/litre	30 (Max)
			15. Nitrate (as NO ₃), mg/litre	45 (Max)
			16. Nitrite (as NO ₂), mg/litre	0.02 (Max)
			17. Fluoride (as F), mg/litre	1.00 (Max)
			18. Mercury (as Hg), mg/litre	0.001 (Max)
			19. Cadmium (as Cd), mg/litre	0.003 (Max)
			20. Selenium (as Se), mg/litre	0.01 (Max)
			21. Arsenic (as As), mg/litre	0.01 (Max)
			22. Cyanide (as CN), mg/litre	Absent
			23. Phenolic compounds	Absent
			24. Mineral oils	Absent
			25. Lead (as Pb), mg/litre	0.01 (Max)
			26. Zinc (as Zn), mg/litre	3.00 (Max)
			27. Chromium (as Cr), mg/litre	0.05 (Max)
			28. Barium (as Ba), mg/litre	1.00 (Max)
			29. Borate(as H ₃ BO ₃), mg/litre	5.00 (Max)
			30. Nickel (as Ni), mg/litre	0.02 (Max)
			31. Hydrogen sulfide (as H ₂ S), mg/L	0.05 (Max)
			32. Aerobic microbial count, per ml, (Incubation at 37°C for 72 h)	100 (Max)
			33. Total coliforms in 100 ml	Absent
			34. E.coli in 250 ml	Absent
			35. Salmonella in 100 ml	Absent
			36. Shigella in 250 ml	Absent
			37. Yeasts and moulds in 250 ml	Absent
			38. Residual free chlorine, mg/l,	0.2 (Max.)
			39. Aldrin- Dieldrin µg/l, Max.	0.03

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
6.	Natural Mineral Water	BDS 1414:2021	1. Colour, Hazen Unit	5 (Max)
			2. Odour	Agreeable
			3. Taste	Unobjectionable
			4. Turbidity, NTU	5 (Max)
			5. pH value	6.5-8.5
			6. Total hardness (as CaCO ₃),mg/L	300.00 (Max)
			7. Chloride (as Cl), mg/litre	200.00 (Max)
			8. Total dissolved solids, mg/litre	150.00-1500.00
			9. Copper (as Cu), mg/litre	1.00 (Max)
			10. Manganese (as Mn), mg/litre	2.00 (Max)
			11. Zinc (as Zn), mg/litre	5.00 (Max)
			12. Borate(as H ₃ BO ₃), mg/litre	5.00 (Max)
			13. Arsenic (as As), mg/litre	0.01 (Max)
			14. Barium (as Ba), mg/litre	1.00 (Max)
			15. Cadmium (as Cd), mg/litre	0.003 (Max)
			16. Chromium (as Cr), mg/litre	0.05 (Max)
			17. Lead (as Pb), mg/litre	0.01 (Max)
			18. Mercury (as Hg), mg/litre	0.001 (Max)
			19. Selenium (as Se), mg/litre	0.01 (Max)
			20. Fluoride (as F), mg/litre	1.00 (Max)
			21. Nitrate (as NO ₃), mg/litre	45.00 (Max)
			22. Hydrogen sulfide (as H ₂ S), mg/L	0.05 (Max)
			23. Nitrite (as NO ₂), mg/litre	0.10 (Max)
			24. Cyanide (as CN), mg/litre	0.01 (Max)
			25. Antimony (Sb), mg/litre	0.005 (Max)
			26. Nickel (as Ni), mg/litre	0.02 (Max)
			27. Polychlorinated biphenyle (PCB)	Not detectable
			28. Polynuclear aromatic hydrocarbon	Not detectable
			29. Aldrin and dieldrin, µg/l	0.03
			30. Aerobic microbial count, per ml, (Incubation at 37°C for 72 h)	100 (Max)
			31. Total coliforms in 100 ml	Absent
			32. E.coli in 250 ml	Absent
			33. Salmonella in 100 ml	Absent
			34. Shigella in 250 ml	Absent
			35. Yeasts and moulds in 250 ml	Absent
			36. Enterococci in 250 ml	Absent

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
7.	Soft Drink Powder	BDS 1586: 2007	1. Description	The material shall be in granular/crystalline powdered form, homogeneous and free flowing. It shall have a pleasant characteristic flavour. It shall be free from off-odours and off-flavours, dirt and extraneous matter.
			2. Moisture, %m/m	1.00 (Max)
			3. Sulphated ash content, % m/m	2.00 (Max)
			4. Acid insoluble ash, % m/m	0.005 (Max)
			5. Solubility (at ambient temperature), % m/m	95.00 (Min)
			6. Acidity (as citric acid), % m/m	3.50 (Max)
			7. Arsenic (as As), mg/kg	0.10 (Max)
			8. Copper (as Cu), mg/kg	2.00 (Max)
			9. Lead (as Pb), mg/kg	0.20 (Max)
			10. Tin (as Sn), mg/kg	25.00 (Max)
			11. Zinc (as Zn), mg/kg	2.00 (Max)
			12. Cadmium (as Cd), mg/kg	0.10 (Max)
			13. Total plate count/ml	1000 (Max)
			14. Total coliform count/ml	Nil
			15. Mould count/ml	5 (Max)
8.	Artificial Flavoured Drink	BDS 1877:2014	1. Description	The product shall be of a uniform consistency and of a characteristic colour. It shall be free from other extraneous matter. The product shall have a pleasant flavour and aroma. It shall be free from scorching or caramalization or fermentation.
			2. Total soluble solid, % m/m	9.00 (Min)
			3. Total sugar (assucrose),% m/m	8.5 (min)
			4. Acidity (as anhydrous citric acid),% m/m	1.00 (Max)
			5. Sulphur dioxide content, mg/kg	70.00 (Max)
			6. Benzoic acid content, mg/kg	120.00 (Max)
			7. Arsenic(as As), mg/kg	0.01 (Max)
			8. Copper (as Cu), mg/kg	2.00 (Max)
			9. Lead (as Pb), mg/kg	0.20 (Max)
			10. Tin (as Sn) mg/kg	25.00 (Max)
			11. Total plate count per ml	50 (max)
			12. Total coliform count, per ml	<10 cfu
			13. Yeasts and moulds count per ml	<10 cfu
			14. Faecal coliform, per ml	Nil

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
9.	Malt Drinks	BDS 1994:2021	1. Description	The sample is a non-alcoholic beverage prepared from cereals grains caramel, sweeteners & other permitted optional food ingredients.
			2. Ethyl alcohol	Nil
			3.pH (after de-carbonation)	2.5-4.5
			4.Sulphur dioxide content, mg/L	50 (Max)
			5.Benzoic acid content, mg/L	350 (Max)
			6.Total Viable Count, CFU/ml	10 (Max)
			7.Coliform, CFU/ml	Absent
			8.E. Coli, CFU/ml	Absent
			9.Salmonella Sp, CFU/ml	Absent
			10.Yeasts and mould, CFU/ml	10 (Max)
			11.Aflatoxin, ppb	2.0 (Max)
			12.Arsenic, mg/L	0.2 (Max)
			13.Lead, mg/L	0.2 (Max)
10.	Black Tea	BDS ISO 3720: 2017	1.Description	The materials shall have no taints and free from extraneous matter
			2.Water Extract, % m/m	32.0 (Min)
			3.Total ash, % m/m	4.0-8.0
			4.Water soluble ash of total ash, %m/m	45.0 (Min)
			5.Alkalinity of water soluble ash (as KOQ), % m/m	1.0-3.0
			6.Acidsoluble ash, % m/m	1.0 (Max)
			7.Crude fiber, % m/m	16.50 (Max)
			8.Total polyphenols, % m/m	9.00(Min)
11.	Instant Tea and solid From	BDS ISO 6079:2015	1.Description	The Instant Tea shall be free from insect damage or fungal attack.
			2. Moisture Content, % (m/m) max	6
			3. Total ash, on dry basis, % (m/m)	20 (max.)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
12.	Green Tea	BDS ISO 11287:2012	1.Description	The tea shall be free from taint and shall have the characteristics, appearance, colour and taste of green tea. The tea shall be clean and free from extraneous matter
			2.Water Extract, % mass fraction	32.0 Min
			3. Total ash, % mass fraction	08-Apr
			4. Water soluble ash of total ash,% mass fraction	45.0 Min
			5. Alkalinity of water soluble ash (as KOQ), % mass fraction	03-Jan
			6. Acid insoluble ash, % mass fraction	1.0 Max
			7. Crude fiber, % mass fraction	16.50 Max
			8. Total polyphenols, % m/m	11.0 (Min)

Chemical Testing Wing

Group: Spices and condiments (6)



Spices samples



Heavy metal test of spices by AAS



Curcumin Test by UV visible spectrophotometer



Iodine value test of Iodized salt

Group:Spices and condiments (6)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
1.	Turmeric Powder	BDS 991: 2020	1. Description	The turmeric powder shall have its characteristic taste and flavour. It shall be free from musty odour, dirt, mould growth, insect infestation, added colouring matter such as lead chromate and extraneous matter.
			2. Moisture, %m/m	10.0 (Max)
			3. Total ash, %m/m	9.0 (Max)
			4. Acid insoluble ash, %m/m	1.50 (Max)
			5. Curcumin content on dry basis,% m/m	2.0(Min)
			6. Starch, %m/m	60.0 (Max)
			7. Presence of Chromates	Negative
			8. Lead (as Pb), ppm	5.0 (Max)
			9. Fineness	96% of the material shall pass through BDS sieve 35(500 micro meter)
			10. Salmonella, in 24 g	Absent
			11. Yeast and Mould,cfu/g	103
2.	Chilli Powder	BDS 1017: 2020	1. Description	The material shall be in the form of powder of characteristic colour from dark red to orange red. It shall have a characteristic strong odour. It shall be free from living insects & mould, dead insects, insect fragments and rodent contamination
			2. Moisture, %m/m	10.0 (Max)
			3. Total ash (On dry basis), %m/m	8.00 (Max)
			4. Acid insoluble ash (On dry basis),% m/m	1.25 (Max)
			5. Crude fibre (On dry basis),%m/m	30.00 (Max)
			6. Non-volatile ether extract (On dry basis),% m/m	15.00 (Min)
			7. Lead, ppm	5.0 (Max)
			8. Copper, ppm	5.0 (Max)
			9. Fineness	Min 90% of the material shall pass through BDS sieve 35 (500 micron).
			10. Salmonella, in 25 g	Absent

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
3.	Coriander Powder	BDS 1084: 2015, Ammend-2020	1. Description	The material shall have its characteristic pleasant taste and flavour. It shall be free from musty odour, dirt, mould growth, insect infestation and other extraneous matter.
			2. Moisture, % m/m	9.00 (Max)
			3. Total ash (on dry basis),% m/m	7.00 (Max)
			4. Acid insoluble ash (on dry basis) % m/m	1.5 (Max)
			5. Volatile Oil (on dry basis) ml/100gm	0.1 (Min)
			6. Fineness, % m/m, Min	90% should pass through sieve size 500µm.
			7. Salmonella, in 25 g	Absent
4.	Curry Powder	BDS 1205:2013 Ammend 1:2020	1. Description	The curry powder shall be in the form of powder. The material shall be free from artificial coloring matter. It shall be content of spices and condiments. It shall have a fresh and characteristic taste and flavour. It shall be free from dirt, insects, mould, rodent contamination and foreign matter
			2. Moisture, % m/m	10.00 (Max)
			3. Volatile oil (on dry basis) ml/100 gm	0.25 – 0.40
			4. Non volatile ether extract (on dry basis), % m/m	7.50 (Min)
			5. Total ash (on dry basis),% m/m	12.00 (Max)
			6. Acid insoluble ash(on dry basis), % m/m	1.00 (Max)
			7. Crude fibre (on dry basis),% m/m	20.00 (Max)
			8. Salt (as NaCl), % m/m	10.00 (Max)
			9. Lead (as Pb), mg/kg	1.50 (Max)
			10. Cadmium (as Cd), mg/kg	0.15 (Max)
			11. Arsenic (as As), mg/kg	0.50 (Max)
			12. Fineness, %m/m, Min	90% should pass through sieve size 500µm.

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>	
5.	Iodized Salt	BDS 1236: 2020		(Vacuum Evaporated)	(Mechanical)
			1. Description	The sample shall be white, crystalline consisting predominantly of sodium chloride. It is obtained from the sea, from underground rock salt deposits or from natural brine. It shall be free from any visible impurities and deleterious substance.	The sample shall be white, crystalline consisting predominantly of sodium chloride. It is obtained from the sea, from underground rock salt deposits or from natural brine. It shall be free from any visible impurities and deleterious substance.
			2. Moisture, % m/m	1.00 (Max)	6.00 (Max)
			3. Water insoluble matter, % m/m, on dry basis	0.5 (Max)	1.0 (Max)
			4. Chloride content (as NaCl), % m/m, on dry basis	98.00 (Min)	96.00 (Min)
			5. Matter soluble in water other than sodium chloride (on dry basis) % m/m	2.00 (Max)	3.00 (Max)
			6. Alkalinity (as Na ₂ CO ₃), % m/m,	0.2 (Max)	0.3 (Max)
			7. Iodine content, ppm, (Distribution channel including retail level)	20 to 50	20 to 50
			8. Sulphate (as SO ₄), % m/m	0.60 (Max)	0.60 (Max)
			9. Lead (as Pb), ppm	2.0 (Max)	2.0 (Max)
			10. Arsenic (as As), ppm	0.5 (Max)	0.5 (Max)
11. Particle size	Minimum 95% of the sample shall pass through 1.0 mm sieve and not more than 10% by mass shall pass through 150 micron Sieve.	Min 95.00 % of the material by mass shall pass through 4.00 mm sieve.			

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
6.	Cumin Powder	BDS 1807:2008 Amendment 1: 2020	1. Description	The colour of the sample shall be yellow or greyish brown. It shall possess characteristic pleasant taste, flavour and aroma and shall be free from musty odour, visible moulds and insects, living or dead. It shall also be free from extraneous and added colouring matter.
			2. Moisture, % m/m	9.00 (Max)
			3. Total ash(on dry basis), % m/m	9.50 (Max)
			4. Acid insoluble ash(on dry basis),%	1.50 (Max)
			5. Total fat(on dry basis), % m/m	30.0 (Max)
			6. Volatile oil, ml/100 gm	1.50 (Min)
			7. Non volatile ether extract,% m/m	15.00 (Min)
			8. Arsenic (as As), mg/kg	0.05 (Max)
			9. Lead (as Pb), mg/kg	1.5 (Max)
			10. Cadmium (as Cd), mg/kg	0.15 (Max)
			11. Fineness, % m/m, Min	90% of the material shall pass through sieve size 500µm.

Chemical Testing Wing

Group: Plywood and Pulp Products (4)



Plywood and pulp products



pH meter & measurement of pH



Microbial detection

Group: Plywood and Pulp Products (4)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
1.	Plywood Tea Chests	BDS 18: 2006	1. Moisture	15.0(Max)
2.	Safety Matches In Boxes	BDS 1040: 2006	1. Description	The average number of sticks per box shall be minimum 40 when determined on the examination of any six boxes from the sample and no box out of these six boxes shall contain less than 40 sticks. The number of sticks in a box is to be different, then the average number of sticks per box shall be 100 ± 4 percent when determined on the examination of any six boxes from the sample and no box out of these six boxes shall contain less than 95 percent of the nominal specified number of sticks given on each box.
			2. Safety	To pass the test
			3. Ignition below 170°C	Nil
			4. Ignition under impact	Nil
			5. Burning quality spurting, %	5 (Max)
			6. Wearing strength of friction surface	To pass test
			7. Damp-proofness, percentage	60 (Min)
3.	Facial Tissue Paper	BDS 1723: 2022	1. Description	The sample shall be sanitary and adequately flexible, easy to loosen in water and be free from defects causing trouble in use such as wild formation, tears, fiber bundle, wood splinters or holes.
			2. pH (2% Solution, at room temperature)	6.0 – 8.5
			3. Total Plate count, cfu/g Max	300
			4. Pseudomonas aeruginosa, cfu/g	Not detectable
			5. Staphylococcus aureu, cfu/g	Not detectable
			6. Candida albicans, cfu/g	Not detectable
			7. Escherichia coli, cfu/g	Not detectable
4.	Toilet Tissue	BDS 1745: 2022	1. Description	The sample shall be sanitary and adequately flexible, easy to loosen in water and be free from defects causing trouble in use such as wild formation, tears, fiber bundle, wood splinters or holes.
			2. pH (at room temperature)	6.0 – 8.5
			3. Total Plate count, cfu/g Max	300
			4. Pseudomonas aeruginosa, cfu/g	Not detectable
			5. Staphylococcus aureu, cfu/g	Not detectable
			6. Candida albicans, cfu/g	Not detectable
			7. Escherichia coli, cfu/g	Not detectable

Chemical Testing Wing

Group: Chemical (General) Products (28)



Petroleum Products



Kinetic viscosity measurement



Estimation of Sulphur of Petroleum Products by EDXRF



Measurement of octane no. by octane cetane analyser

Group:Chemical (General) Products (28)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
1.	Internal Combustion Engine Crankcase Oils (Lubricating Oil)	BDS 343: 2022	1. Description	The oil shall be free from suspended matter, grit, water or any other foreign matter & impurities.
			2. Appearance	When examined transmitted light in a colorless glass test tube of 25 mm internal diameter, oil shall be clear, bright and free from turbidity and sediment.
			3. Density at 15°C, g /ml	To be reported
			4. Flash point (COC),°C	200.0 (Min)
			5. Kinematic Viscosity,cSt at 40°C:	To be reported
			6. Low-Shear-Rate Kinematic Viscosity, cSt at 100° C: For 15W-40	i)Min 5.6 (for 15 W) & ii) 12.50- <16.30
			7. Viscosity-index	110.0 (Min)
			8. Total acid No.mg KOH/g	To be reported
2.	High Speed Diesel	BDS 344: 2020	1. Description	The sample shall be hydrocarbon oils derived from petroleum. The material shall be free from grit, suspended matter and other visible impurities.
			2. Density at 15°C, kg/m ³	820-860
			3. Acidity, Inorganic, mg of KOH/g	Nil
			4. Acidity,Total, mg of KOH/g	0.20 (Max)
			5. Ash, % m/m	0.01 (Max)
			6. Carbon residue on conradson on 10 percent residue, %m/m	0.30 (Max)
			7. Cetane number	48.00 (Min)
			8. Cetane index	46.00 (Min)
			9. Pour point,°C a) Winter	3.0 (Max)
			b) Summer	9.0 (Max)
			10. Copper strip corrosion for 3 hrs at 50°C	Not worse than No-1
			11. Distillation recovery %(v/v), at 365 °C	95.0 (Min)
			12. Flash point, Pensky Martens (Close cup),°C	55.00 (Min)
			13. Water Content, % v/v	0.05(Max)
14. Kinematic Viscosity in centistokes at 40°C	2.0-4.50			

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
3.	Unleaded Motor Gasoline-Premium (Octane)	BDS 346: 2010 (Reaffirmed)	1. Description	The material shall be a refined petroleum distillate and free from undissolved water, foreign matter and other visible impurities.
			2. Density at 15°C, Kg/L	Not limited
			3. Colour	Red
			4. Copper-strip corrosion at 50°C	Not worse than No.1
			5. Distillation:	
			a) Initial boiling point, °C	Not limited
			b) 10% recovery by volume, °C	75.00 (Max)
			c) 50% recovery by volume, °C	80-125
			d) 90 % recovery by volume, °C	180.00 (Max)
			e) Final boiling point, °C	210.00 (Max)
			f) Residue, %v/v	2.00 (Max)
			6. Octane Number	95.0 (Min)
			7. Lead content (as Pb), ppm	10.0 (Max)
8. Doctor test	Negative			
4.	Unleaded Motor Gasoline-Regular (Petrol)	BDS 347: 2019	1. Description	The material shall be a refined petroleum distillate and free from undisclosed water, foreign matter and other visible impurities.
			2. Density at 15°C kg/l	Not limited but to be reported
			3. Colour, visual	Orange
			4. Copper-strip corrosion for 3 hours at 50°C Distillation:	Not worse than No-1
			5. a) Initial boiling point, °C	Not limited but to be reported
			b) 10% recovery by volume, °C	75.00 (Max)
			c) 50% recovery by volume, °C	80-125
			d) 90 % recovery by volume, °C	180.00 (Max)
			e) Final boiling point, °C	210.00 (Max)
			f) Residue, %v/v	2.00 (Max)
			6. Lead content (as Pb), ppm	10.0 (Max)
7. Doctor test	Negative-0.001			
5.	Laundry Soap	BDS 12:2019 (3 rd Rev.)	1. Description	The sample shall be a well saponified product in the form of tablet or bar, uniform in colour, of firm and texture, free from dirt and fragmentation. It shall have good lathering and cleansing properties.
			2. Total fatty matter, %m/m	40.0 (Min)
			3. Free caustic alkali (as NaOH), %m/m	0.30 (Max)
			4. Unsaponified fatty matter, %m/m	1.0(Max)
			5. Chlorides (as NaCl), %m/m	3.00 (Max)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
6.	Synthetic Detergent Powder	BDS1445: 2019	1. Description	The detergent powder shall be a free flowing powder which is readily soluble in water. It shall be free from any unpleasant odour and shall possess good lathering and cleaning properties.
			2. Active ingredient content, % m/m	10.00 (Min)
			3. Total phosphate content expressed as P ₂ O ₅ , % m/m	5.00 (Max)
			4. pH of 1.00 % solution (m/v)	6.00-11.00
			5. Matter insoluble in water,%m/m	20.00 (Max)
			6. Non detergent organic matter, % m/m	1.00 (Max)
			7. Hand Immersion Test	The product shall be non injurious to the hands of consumers and to the fabrics washed with it.
			8. Lead (as Pb), mg/kg	10 (Max)
			9. Arsenic (as As), mg/kg	3 (Max)
			10. Mercury (as Hg), mg/kg	1 (Max)
			11. Cadmium (as Cd), mg/kg	3 (Max)
7.	Liquid Dish Wash	BDS 1554: 2021 (1 st Rev.)	1. Description	The sample shall be homogeneous liquid, free from foreign matter.
			2. Odour	Neither the detergent nor a solution of the detergent in water up to 60 °C should have an objectionable odour.
			3. Residual Test	The detergent shall not leave any residual taste on washed articles.
			4. Rinsing properties	Shall be free rinsing.
			5. pH, 1.0% (v/v) solution in water at (27 ± 2) °C	4.50-9.50
			6. Surfactants as SLES, % m/m	12.00 (not less than)
			7. Viscosity, CPS at 20 °C (Brooke field, RPM-30, (Spindle-6)),	325 (Min)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
8.	Liquid Toilet Cleaner (Porcelain Bowls and Urinals) Type 1 – Acidic liquid toilet cleaner	BDS 1707: 2021	1. Description	The material shall be homogeneous viscous liquid and if any may be suitably coloured. Colour shall be stable and distinct. It shall contain acid or alkali and/or surfactant. The material may contain any necessary wetting agents, inhibitors and other desirable additives. The ingredients used in the manufacture of the material shall be intimately mixed and processed and shall be suitable for the intended purpose. The material shall not affect toilet bowl surface when used as directed by the manufacturer. It shall have suitable disinfectant. It shall be correctly inhibited to minimize metallic corrosion.
			2. Total Acidity (as HCl or H ₃ PO ₄), percent by mass	12-Jul
			3. Sediment content, percent by volume, not more than	0.5
			4. Efficacy test	
			a) Ability to remove rust & stains within 5 minutes	To pass the test
			b) Ability to remove lime scale: Mass of loss of marble, % m/m	1.0 (Min)
			5. Effect on porcelain Enamel	shall not any etching effect
			6. Corrosion Inhibition: Loss in percent by mass of the metal,	0.15(max.)
	Liquid Toilet Cleaner (Porcelain Bowls and Urinals) Type 2 – Alkaline Liquid Toilet Cleaner	BDS 1707: 2021	1. Description	The material shall be homogeneous viscous liquid and if any may be suitably coloured. Colour shall be stable and distinct. It shall contain acid or alkali and/or surfactant. The material may contain any necessary wetting agents, inhibitors and other desirable additives. The ingredients used in the manufacture of the material shall be intimately mixed and processed and shall be suitable for the intended purpose. The material shall not affect toilet bowl surface when used as directed by the manufacturer. It shall have suitable disinfectant. It shall be correctly inhibited to minimize metallic corrosion.
			2. pH	10.50 – 13.0

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
			3. Surfactant as SLES, percent by mass, min.	5
			4. Viscosity, cps, min.	350
			5. Sediment content, percent by volume, not more than	0.1
			6. Efficacy:	
			a) Ability to remove rust and stains in 5 minutes	To pass the test
			b) Ability to remove lime scale: Mass of loss of marble, percent by mass, not less than	0.5
			7. Effect on porcelain Enamel	shall not any etching effect
			8. Corrosion Inhibition: Loss in percent by mass of the metal, max.	0.15
	Liquid Toilet Cleaner (Porcelain Bowls and Urinals) Type 3 – Neutral Liquid Toilet Cleaner	BDS 1707: 2021	1. Description	The material shall be homogeneous viscous liquid and if any may be suitably coloured. Colour shall be stable and distinct. It shall contain acid or alkali and/or surfactant. The material may contain any necessary wetting agents, inhibitors and other desirable additives. The ingredients used in the manufacture of the material shall be intimately mixed and processed and shall be suitable for the intended purpose. The material shall not affect toilet bowl surface when used as directed by the manufacturer. It shall have suitable disinfectant. It shall be correctly inhibited to minimize metallic corrosion.
			2. pH	6.5 – 7.5
			3. Surfactant as SLES, % by mass,	5.0(min.)
			4. Viscosity, cps, min.	200
			5. Sediment content, percent by volume, not more than	0.1
			6. Efficacy:	
			a) Ability to remove rust and stains in 5 minutes	To pass the test
			b) Ability to remove lime scale: Mass of loss of marble, percent by mass, not less than	0.5
			7. Corrosion Inhibition: Loss in percent by mass of the metal, max.	0.15

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
9.	Liquid Floor Cleaner	BDS 1859:2021 (1 st Rev.)	1. Description	The product shall be a stable uniform solution of surfactant. It shall not contain any abrasive and shall be non-irritating to the skin
			2. pH Value	4.50-10.50
			3. Solubility	The product shall be completely soluble in distilled water
			4. Solubility in Hard water	The product shall be completely soluble in water having a hardness of 50 ppm
			5. Rinsing Properties	The product shall be free-rinsing
			6. Cleaning Efficiency	3.0 (Min)
			7. Deleterious action on painted surfaces	Passes the test
			8. Deleterious action on linoleum, rubber and vinyl tile flooring	Passes the test
			9. Surfactant Content, %m/m	3.00 (min)
10.	Cement paint	BDS 1706:2015	1. Description	The material shall be in the form of finely divided powder, free from foreign matter and visible impurities.
			2. Drying time (Hard dry)	24 hours (Max)
			3. Finish	The coating shall be smooth, hard, and firmly adherent and shall have a matt finish.
			4. Colour (Visually)	—
			5. Residue on 63 micron BDS sieve (on dry material), percent by mass,	5.0 (Max)
			6. Water repellency	Water absorbed by the panel is not more than 200 gm/m ²
			7. Pot life of mixed paint	Not less than one hour
			8. Resistance to rubbing	The material shall be deemed to have passed the test if the test cambric cloth is not soiled by the film.
11.	Emulsion Paint	BDS 1827: 2018	1. Drying time, hours	
			a) Surface dry, Class C	90.0 minutes (Max)
			b) Hard dry, Class C	8.0 hours (Max)
			2. Finish	Smooth and uniform
			3. Colour/Shade	As per customer choice
			4. Viscosity at 30 ± 20	85 ku (Min)
			5. Resistance to wet abrasion	To pass the test
			6. Temperature stability	To pass the test
			7. Opacity	To pass the test
8. Lead content (as dry film), ppm	90.00 (Max)			

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
12.	Economy Emulsion Paint (Distemper)	BDS 1833:2018	1. Drying time , hours	
			a) Surface dry	1 hours (Max)
			b) Hard dry	6 hours (Max)
			2. Finish	Smooth & Uniform
			3. Color/Shade	Visual
13.	Enamel Synthetic Exterior: a) Undercoating& b)Finishing	BDS1423: 2018	4. Temperature Stability	To pass the test
			5. Lead content (as Pb), ppm	90.00 (Max)
			1. Drying time , hours, Max	
			a) Surface dry	6 hours
			b) Hard dry	24 hours
14.	Ready Mixed paint, brushing, Finishing, Semi gloss for general purposes	BDS 402 : 1989 With amendment 1, 2 : 2007	c) Tack free	12 hours
			2. Flash point	Not below 30°C
			3. Accelerated Storage stability test , at 60°C, 96h	Shall pass the test
			4. Lead content (as Pb), ppm	90.00 (Max)
			1. Drying time	
			a) Surface dry	Between 4 to 12 hours
			b) Hard dry	Not more than 24 hours
			c) Tack free	Not more than 48 hours
			2. Consistency	Smooth and uniform
			3. Colour	Close match to BS colour No. 105 or 106
			4. Flash point, °C, Min	35
			5. Gloss	Shall dry with a full gloss after 24 hours
			6. Opacity	Not less than 75 percent of the approved sample
			7. Flexibility and adhesion	No visible damage or detachment
			8. Scratch resistance	No such scratch as to show the bare metal
			9. Resistance to white spirit	Shall not show of softening or removal
			10. Resistance to kerosene	Shall not show signs of softening or removal
			11. Viscosity	Shall not show hard settling objectionable skinning or tendency for the medium to gel when examined in Ford Cup (Flow Cup) Viscometer No. 4
12. Fastness to light	Not inferior to the approved sample			
13. Finish	Smooth and semi-gloss			
14. Water content (if water is suspected to be present), percent by mass, max	0.5			
15. Protection against corrosion under conditions of condensation	No signs of break down or corrosion			
16. Mass in kg per 10 litre	within 3 percent of the approved sample			
17. Keeping properties	Not less than one year from the date of manufacture			
18. Marking and delivery	As agreed with the purchaser			

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
15.	Liquid Hand Wash (Soap based)	BDS 1973: 2019	1. pH at 25±1 °C (For 10.0 % aqueous solution)	10.0 (Max)
			2. Total fatty matter	15.00 (Min)
			3. Total free alkali,	0.05 (Max)
			4. Insoluble matter	0.50 (Max)
	Liquid Hand Wash (Surfactant based)	BDS 1973: 2019	1. pH at 25±1 °C (For 10.0 % aqueous solution)	4.0-10.0
			2. Total surface active agents, %m/m	7.0 (Min)
Liquid Hand Wash (Combination)	BDS 1973: 2019	1. pH at 25±1 °C (For 10.0 % aqueous solution)	4.0-10.0	
		2. Total surface active agents,%m/m	7.0 (Min)	
16.	Alcohol Based Hand Sanitizers (IPA- Rub)	BDS 1980: 2020	1. Appearance/ Description	The sanitizers shall have an acceptable odour, shall not have any disagreeable odour or smell. It shall be a clear, colour/ colourless homogeneous and in the form of liquid or gel. It shall be free from visible suspended matter or precipitated contaminants.
			2. Ethyl alcohol (Ethanol) /	70.0 (Min)
			3. Iso-Propyl alcohol (IPA),% v/v	
			4. Bactericidal/ Disinfectant efficacy	To pass the test
			Impurities	
			5. Methanol	250 (Max)
			6. Pyridine	80 (Max)
			7. Benzene	2 (Max)
			8. Acetaldehyde	50 (Max)
			9. pH	5.0-8.0
			10. Fragrance and Colour	Acceptable
11. Emollients, percent by volume				
17.	Water for use in Secondary Batteries	BDS 834:2007 (First Revision)	1.Description	The sample shall be free from suspended matter, odour, taste and shall be colourless when viewed through a depth of 300 mm.
			2. Conductivity at 25°C, mS/m	1.00 (Max)
			3.Manganese (as Mn), mg/litre	0.1 (Max)
			4. Residue on evaporation, mg/litre	150.00 (Max)
			5. Chloride (as Cl), mg/litre	20.00 (Max)
			6. Copper (as Cu), mg/litre	5.00 (Max)
			7. Iron (as Fe), mg/litre	5.00 (Max)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
18.	Bitumen & Bituminous Binders-Specifications for paving grade bitumen. (Grade: 50/70)	BDS EN12591: 2009	1. Penetration at 25 °C, (100g, 5 Sec)	50-70
			2. Softening Point (Ring & Ball)	46-54
			3. Change of Mass, max	0.5
			4. Retained Penetration, min	50
			5. Softening Point After Hardening,	48 (min)
			6. Flash point (Clevel and Open Cup)	230 (min)
			7. Solubility, (in xylene), min	99
19.	Bitumen and bituminous binders — Framework for specifying cationic bituminous emulsions (Class 2)	BDS EN 13808:2009	1. Particle Polarity	Positive
			2. Breaking Value	≤ 80
			3. Mixing Stability with cement	≤ 2
			4. Fines Mixing Time	≥ 180
			5. Binder Content (by water content)	38 – 42
			6. Recovered binder content (by distillation)	≥ 38
			7. Oil Distillate content	≤ 2.0
			8. Efflux Time 2 mm at 40°C	≤ 20
			9. Dynamic Viscosity at 40°C	DV
			10. Residue on sieving:	
			a) 0.5 mm sieve	≤ 0.1
			b) 0.16 mm sieve	≤ 0.25
			11. Residue on sieving (7 days storage): 0.5 mm sieve	≤ 0.1
			12. Setting Tendency	≤ 5
			13. Adhesivity	≥ 75
			14. Method of Recovery: by evaporation:	
			Penetration at 25°C	≤ 50
			15. Softening Point	≥ 55
16. Efflux Time (10 mm cup at 25°C or 40°C as appropriate)	DV			
17. Dynamic Viscosity at 60°C	≥ 18.0			
18. Kinematic Viscosity at 60°C	≥ 16000			
20.	Bitumen and bituminous binders: Framework specification for polymer modified bitumens. (Class – 05)	BDS EN 14023:2009	1. Penetration at 25 °C, (100g, 5 Sec)	40 – 100
			2. Softening Point (Ring & Ball)	≥ 65
			3. Change of Mass	≤ 1.0
			4. Retained Penetration	≥ 50

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
21.	Mosquito Coil	BDS 1089: 2018	1. Description	The sample shall be in twin form and it will be easily separated without breaking.
			2. Dropping test	The coil shall remain intact after being dropped from a height of 1.5 meters with the plane of the coil horizontal to a smooth concrete face.
			3. Burning characteristic	6 hours (Min)
			4. Moisture, %m/m	12.0 (Max)
22.	Melathion 57% (W/V) Emulsifiable Concentrates	BDS 1179: 2001	1. Description	The material shall be in the form of clear, stable and homogeneous liquid free from sediment suspended impurities shall be negligible
			2. a) Cold test at 12°C	No turbidity or separation of solid and/or only matter shall occur
			b) Cold test at 0°C (for 7 days)	Volume of liquid which separated shall not be more than 0.3 percent.
			3. Flash point	Above 24.5°C.
			4. Water content	Not more than 0.2 percent.
			5. High temperature storage stability at 54 ± 2°C for 14 days	Active ingredient content shall not be deteriorated by more than 10%
			6. Malathion content	The observed malathion content percent by mass shall not differ from that declared by more than -2.5 to + 5 percent.
			7. Acidity (as H ₂ SO ₄)	Shall not be more than 0.5 percent by mass.
			8. Alkalinity (as NaOH)	Shall not be more than 6.5 percent by mass.
9. Specific gravity	1.04–1.07.			
23.	Household Insecticide Aerosol	BDS 1585: 2023	1. Description	The household insecticide aerosol shall be a solution or emulsion of insecticides dissolved or emulsified essentially in a suitable solvent with the addition of propellants, deodorants with/without perfumes antioxidants and synergists, as may be required. The household insecticide aerosol shall be non-staining and light-coloured liquid with pleasant odour when sprayed.
			2. Delivery rate at 30°C±5°C, g/s	5.00(max)
			3. Leakage	To pass test
			4. Clogging of dispenser valve	To pass test

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
24.	Baking Powder	BDS 657: 2015	1. Description	The product shall be in the form of free-following, whitish powder and free from any off odour. It shall be free from dirt, insect or fungus infestation and adulterations. It shall also be free from any other harmful or injurious foreign matter.
			2. Available carbon dioxide, percent by mass, Min.	12
			3. Arsenic (As), mg/kg, Max.	1
			4. Lead (as Pb), mg/kg, Max.	10
25.	Coal Tar Black Paint (Alquatra)	BDS 69 (Pt-2):2006	1. Description	The material shall be homogeneous black solution type paint. It shall be free from dirt.
			2. Consistency	The paint film after drying shall give a continuous uniform film, without sagging on the unpainted section.
			3. Permeability and resistance to salt water	The film of alquatra shall show no discoloration or softening and the surface of the panel shall show no pitting or corrosion.
			4. Drying time, hard dry	48 hours (Max)
			5. Finish and application properties	Smooth and glossy and to pass the test.
			6. Water content, % m/m	0.5(Max)
			7. Flexibility and adhesion after 49 hours air drying	No visible change or detachment of film. OC
			8. Flash point, °C	Not below 30 OC
			9. Viscosity at 30 °C (in second)	35-55
26.	Stamp Pad Ink	BDS 90/2011	1. Description	The material shall be in a fluid condition, in any one of the five colors violet, blue, green, red & black. It shall be free from undissolved matter
			2. Glycerin content, % v/v	35-45
			3. Color	The color of ink shall match with the appropriate reference ink
			4. Foreign matter	The material shall contain no saccharous material, gums or other foreign matter.
			5. Performance test	i) 10 impressions shall be clear ii) There shall be no offset of ink when a piece of writing paper stamped with rubber stamp is folded immediately after stamping
			6. Color fastness	The strips of the material shall be no more affected in respect of resistance to light than those of the reference ink made from the appropriate dye in concentration.

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
27.	Shoe polish, Liquid	BDS 1589:2023 (1 st Rev.)	1. Colour	The material shall be manufactured in conventional colour
			2. Consistency	The material shall be easily pourable, free flowing, homogeneous liquid, free from any grits and sedimentation. It shall have no tendency for the separation or crystallization of the constituent materials.
			3. Applicability	The polish shall spread evenly on the surface without any mottling. The applied film shall not show any tendency while still being wet.
			4. Non Volatile Matter, %m/m	20.00 (Min)
			5. Ash of non-volatile matter,% m/m	3.00 (Max)
			6. pH	6.5 to 9.0
28.	Shoe Polish, Paste	BDS1006: 1981 amend.1: 2006	1. Description a) Colour	The material shall be black tan (light brown)dark tan (dark brown) or neutrally matching the colour of the leather foot wear or in any colour as agreed to between the purchaser and the supplier in case to bulk contract.
			b) Odour	The material shall not have a disagreeable odour.
			c) Polishing property	The polish shall be smooth spreading on the upper shoe leather and on gentle rubbing with brush or polishing cloth the gloss shall appear.
			d) Colour of the water extract	When stirred with water hot enough to melt the polish, the water layer shall not have more than of faint colouration.
			2. Consistency	The material shall be smooth, homogeneous & semi solid mass, free from gritty material. It shall not flow at ordinary temperatures.
			3. Applicability	The polish shall not crumble or dry too rapidly and shall not produce a non tacky polished surface without colouring in the leather unduly.
			4. Softening point of nonvolatile matter: a) Initial °C	60.00 (Min)
			b) Final °C	70.00 (Min)
			5. Ash of the non volatile matter, % m/m	1.50 (Max)
			6. pH of the water extract.	6.5 to 9.0
			7. Distillation range of volatile portion	140 to 220 °C
			8. Flash point of volatile portion	35°C (Min)

Chemical Testing Wing

Group: Stationery Products (6)



Pencil



Paper



Mechanical pulp study



Ball point pen, Pencil and paper

Group:Stationery Products (6)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
1.	Pencils	BDS 330: 2006	1. Chemical Inertness of Pencil Markings	When a paper marked with pencil lines is dipped in hydrogen peroxide, it shall not be affected by the latter.
			2. Gluing and Warpage of Wood Casing	Finished pencil shall be kept for 48 h in a desiccators filled with water. The casing shall not separate.
2.	Writing and printing papers	BDS 405: 2012	1. Description	Writing and printing papers shall be of uniform formation evenly finished fully sized and generally free from specks, holes and other blemishes.
			2. Mechanical pulp	Not more than 20%
			3. pH value	Not less than 5.0
3.	Carbon Paper For Type Writer	BDS 411: 1989 amend.1: 2006	1. Description	The sample shall be free from waves, wrinkles, tears & cuts. The side which is not coated shall be marked by printing to facilitate distinguishing it from the coated side.
			2. Substance of base paper, g/m ²	26 ± 1.5
			3. Coating (Without back coating), g/m ²	12 (Min)
4.	Newsprint	BDS 485: 2012	1. Description	Newsprint paper shall be free from shives, pin holes, slime holes, stock lumps, wrinkles and calender cuts.
			2. Moisture, % m/m	8.0 (Max)
			3. Mechanical pulp	Min 65%
5.	Ball Point Pen	BDS1384: 2022	1. Flame resistance test	The plastic parts shall be non flammable or flame resistance or slow burning.
			2. Corrosion resistance test	All the metal parts shall be corrosion resistant and shall pass corrosion resistance test.
			3. Feathering and Penetration test	The writing shall not feather or spread and shall not have penetrated to the reverse side of the paper.
			4. Resistance to water test	The writing shall be legible, after the test.
			5. Finish	Ball point pens shall have a smooth finish and shall have no sharp edges or feathers.
			6. Usable ink content, % m/m	Not less than 90.00

<u>SI No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
6.	Colour Pencils	BDS 2020: 2023	Harmful substance as coating materials to be used for coating the casing:	
			1. Antimony(Sb), ppm,	45 (max:)
			2. Arsenic(As), ppm, max:	3.8
			3. Barium,(Ba) , ppm, max:	1500
			4. Cadmium,(Cd) , ppm,	1.3 (max:)
			5. Chromium,(Cr III) , ppm,	37.5 (max)
			6. Chromium,(Cr VI) , ppm,	0.02 (max)
			7. Lead,(Pb) , ppm, max:	2
			8. Mercury,(Hg), ppm, max:	7.5
			9. Selenium,(Se), ppm, max:	37.5

Chemical Testing Wing

Group: Leather and leather Products (2)



Group :Leather and leather Products (2)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
1.	Sole leather (vegetable Tanned)	BDS 340:2012	1. Apparent density, Min	0.9
			2. Water absorption, percent,Max:	
			a) in 30 minutes	45
			b) in 2 hours	45
			c) in 24 hours	50
			3. Resistance to cracking	Shall not crack on mandrel No.1 and shall not show any sign of permanent loosening of the grain in the form of wrinkles.
			4. Total ash, percent by mass,	4.0 (Max)
			5. Solvent extractable substance, percent by mass,	6 (Max)
			6. water soluble matter,%by mass,	21 (Max)
			7. pH of water soluble	Not below 3.5
			8. Differential number. Max	0.7
9. Degree of Tannage, Min	58			
10. Sulphated ash of water solubles, in percent, Max	2			
11. Hide substance, % by mass,	40.0 (Min) (For type-01)			
2.	Direct molded Sole (DMS) Boots for General Purpose.	BDS 1555:2023 (1 st Rev.)	Vamp, Quarter, Back Strap, Toe Cap and Socks.	
			1. Chrome, %m/m	2.60(Min)
			2. Oil & Fats, , %m/m	1.3 to 1.5%
			3. Total Ash, %m/m	2.5(Max)
			4. Water Proofing, % m/m (Water absorption after 2 hours)	25 to 30 % (Max)
			Insole & Tongue	
			5. Chrome, %m/m	2.60(Min)
			6. Oil & Fats, , %m/m	4 to 10%
			7. Total Ash, %m/m	2.5(Max)
			8. Water Proofing, % m/m	25 to 30 % (Max)
			Toe puff and Stiffeners	
			9. Oil & Fats, , %m/m	4 9Max0
10. Total Ash, %m/m	1.5 (Max)			
11. Acid Insoluble Ash, %m/m	0.7			
12. pH	3.5 (Min)			

Chemical Testing Wing

Group: Plastics and plastic products (3)



Containers for Packaging of Mineral Water and Drinking Water.



Toxic element testing by AAS

Group: Plastics and plastic products (3)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
1.	Containers for Packaging of Mineral Water and Drinking Water.	BDS 1958: 2019	1.Environmental Stress-Crack Resistance	The container shall show no evidence of stress cracking or leakage after being kept in oven for 48 hours.
			2. Migration Test	The maximum extraction values for the container material shall not exceed 10 mg/dm ² or 60 mg/L at 40°C for 10 days period.
			3. Water Potability	Packaged mineral water and drinking water when stored in containers at 38°C for 30 days, shall not acquire any unpleasant odour of bitter taste.
			Migration of individual constituents:	
			4. Acetaldehyde/Bisphenol A	7 ppm/0.6ppm (Max)
			5. Antimony (Sb)	0.04 ppm, (Max)
			6. Lead (Pb)	2 ppm, (Max)
			7. Cadmium (Cd)	2 ppm, (Max)
			8. Chromium (Cr)	2 ppm, (Max)
			9. Nickel (Ni)	2 ppm, (Max)
10. Mercury (Hg)	0.5 ppm, (Max)			
2.	Pipes and Fittings Made of Unplasticized Polyvinyl Chloride (PVC-U) Used for Potable Water Supply	BDS 1878: 2015	1. Appearance	Visually the internal and external surface of the pipe shall be smooth clean and free from scoring cavities and surface defect. The material shall not contain visible impurities.
			2.Immersion test in Acetone (Alternative test method.In case of dispute resistance to dichloromethane shall be used)	The material shall not show any sign of delimitation or disintegration
			3. Effect of materials on water quality	
			a) Lead (Pb) (First extraction), mg/L	1.0 mg/litre (1.0 part per million by mass)
			b) Lead (Pb) (Third extraction), mg/L	0.3 mg/litre (0.3 part per million by mass)
			c) Dialkyl tin (as Sn) (Third extraction) , mg/L	0.2 mg/litre (0.2part per million by mass)
3.	Plastics Piping Systems- Polyethylene (PE) pipes and fittings used for water supply	BDS ISO 4427-1, 2, 3: 2023	1.Description	The material shall not give rise to an unpleasant tast or odour, cloudiness or to discolouration of the water.
			Toxic hazard	
			2.a) Lead (as Pb), ppm	Nil
			3.b) Cadmium (Cd), ppm	Nil
			Chemical resistance	
			4.a) Acetone (Conc:) 2 hours 20°C & 60°C)	Shall be limited resistance
			5.b) Acetic acid 10% solution 24 hours (20 °C & 60°C)	Shall be satisfactory resistance
6.c) Sulphuric acid 10% solution 24 hours (20 °C & 60°C)	Shall be satisfactory resistance			

Chemical Testing Wing

Group: Cosmetic Products (31)



Weighing of cosmetic products



Evaluating Ethanol and Methanol content of after shave lotion by GC



Hydroquinone measurement of skin cream by HPLC



Acid digestion for fat determination of skin lotion, toilet soap and skin cream

Group: Cosmetic Products (31)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>	
1.	Toilet Soap	BDS 13:2021 (4 th Rev.)	1. Total fatty matter, % m/m	For Grade-1 76.00 (Min)	For Grade-2 70.00 (Min)
			2. Rosin acid, % m/m	2.00 (Max)	2.00 (Max)
			3. Free caustic alkali (as NaOH), %m/m	0.05 (Max)	0.05 (Max)
			4. Matter insoluble in alcohol, % m/m	2.00 (Max)	3.00 (Max)
			5. Chlorides (as NaCl), % m/m	1.00 (Max)	1.50 (Max)
			6. Free carbonated alkali,% m/m	0.5 (Max)	1.0 (Max)
			7. Lather in ml	280 (Min)	240 (Min)
2.	Transparent Toilet Soaps	BDS 1908: 2016	1. Description	Transparent toilet soap shall be a saponified soap of firm and smooth texture. It shall be transparent, perfumed and shall possess good cleaning and lathering properties	
			2. Synthetic detergent	The material shall neither contain any synthetic detergent when tested as per the method given in Annex B and Annex C of BDS 1445 nor any phosphate when tested as per the method prescribed in 20 of BDS 406	
			3. Total fatty matter, % by mass,	60(Min)	
			4. Rosin acids, percent by mass of total fatty matter, Max	20	
			5. Unsaponified fatty matter, per cent by mass, Max	0.5	
			6. Free caustic alkali (as NaOH), percent by mass, Max	0.05	
			7. Transparency	To pass the test	
			8. Grittiness	To pass the test	
3.	Glycerine Toilet Soap	BDS 1536: 2016	1. Description	Glycerine toilet soap shall be a saponified soap of firm and smooth texture. It can be transparent or non-transparent, perfumed and shall possess good cleaning and lathering properties.	
			2. Synthetic detergent	Absent	
			3. Phosphate	Absent	
			4. Dermatological safety	It shall not bring harmful effect to the body.	
			5. Total fatty matter, percent by mass	70.00 (Min)	
			6. Unsaponified fatty Matter,% by mass, (Max)	Nil	

<u>SI No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
			7. Free caustic alkali (as NaOH), percent by mass, Max	0.05
			8. Matter insoluble in alcohol, % by mass	0.1 (Max)
			9. Chlorides (as NaCl) ,% by mass	0.75 (Max)
			10. Total free alkali (as Na ₂ O),% by mass	0.1(Max)
			11. Glycerine, percent by mass,	5 (Min)
			12. Grittiness	To pass the test
4.	Liquid Toilet Soap	BDS 1740: 2004	1. Description	The Liquid toilet soap shall be in the form of a liquid of emulsion. It shall be opaque or transparent, coloured or colourless and perfumed or not perfumed, it shall be of uniform consistency, free from sediments and suspended particles. It shall be easily seperable. It shall have good lathering and rinsing properties. It shall be non-toxic and non skin irritant. It may contain upto 2 percent synthetic detergents.
			2. Total fatty matter, including rosin acid, percent by mass,min	15
			3. pH at 27°C	7.5 – 9.5
			4. Matter insoluble in ethanol,% by mass,	2 (max)
			5. Synthetic detergent, percent by mass,	2 (max)
			6. Total free alkali, calculated as N ₂ O, percent by mass, max	0.03
			7. Formaldehyde, percent by mass,	0.05 (max)
5.	Toothpaste	BDS 1216: 2012	1. Composition	Tooth-paste shall not contain mono or disaccharides (Sucrose and fermentable carbohydrates)
			2. Consistency	The material shall be a homogeneous mixture and free from lumps and discrete particles.
			3. Flavour	The flavour of the material shall be distinct and pleasant.
			4. Irritation	The material shall not irritate the mucous membrane of the mouth.
			5. Safety	When used in normal manner the material shall not cause injury to the teeth, gums, mucous membrane of the mouth.
			6. Ease of extrusion, %m/m	91.00 (Min)
			7. Dispensing	The material shall extrude from the collapsible tube or any other suitable container in which it is packed at 27 ± 2 °C in the form of continuous mass.

<u>SI No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>			
			8. Stability	The material shall show no signs of deterioration at 45°C for 28 days and shall not have contaminated the tooth paste inside.			
			9. Tube inertness	There will be no corrosion or other injury of the tube and cap by the material.			
			10. Hard & sharp edged abrasive particles.	Absent			
			11. Spreadability ,cm	8.50 (Max)			
			12. Fineness, Particle retained on				
			13. a) 150 mm sieve, %m/m	10 (Max)			
			b) 75mm sieve, %m/m	2.5 (Max)			
			14. pH of aqueous suspension	5.50 — 10.50			
			15. Heavy metal (as Pb),ppm	20.00 (Max)			
			16. Arsenic (as As ₂ O ₃),ppm	2.00 (Max)			
			17. Foaming power, in ml	50.00 (Min)			
			18. Fluoride ion, ppm				
			19. a) For non fluoridated	50.00 (Max)			
			b) For fluoridated	1000.00 (Max)			
			Microbial counts:				
			20. a) Total viable counts per g	1000.00 (Max)			
			21. b) Salmonellae (could not be done) and Escheerichia coil per 10 grams.	Absent			
			6.	Tooth Powder	BDS1370: 2017	1. Description	The sample shall be smooth, uniform and free flowing fine powder. It shall be free from foreign matter.
						2. Fineness:	
						a) Particle retained on 150 micron sieve, %m/m	1.0 (Max)
						b) Particle retained on 75 micron sieve, %m/m	2.50 (Max)
			3. Moisture and volatile matter, %m/m	5.00 (Max)			
			4 pH of 50 % aqueous suspension	5.5-10.5			
			5. Lead (as Pb), ppm	20.00 (Max)			
			6. Arsenic (as As ₂ O ₃),ppm	2.00 (Max)			
			7. Foaming Power, ml	50 (Min)			
			8. Abrasion	To pass the test			
			Microbial count				
			9. a) Total viable count cfu/g	Not more than 1000			
			10. b) Gram negative pathogens/g	Absent			

<u>SI No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
7.	Shaving Cream	BDS1241: 2017	1. Consistency	The material shall be in the form of thick emulsion with soft texture and steady consistency .It shall be white or pigmented and of uniform colour.
			2. Homogeneity	The material shall extrude from the collapsible tube at $25 \pm 5^{\circ}$ C in the form of homogeneous mass with the application of normal force starting from the crimped end of the tube.
			3. Stability	The material shall not segregate or physically deteriorate during normal condition of storage and use.
			4. Effect of container	The material shall be packed in collapsible tubes of material, which shall not corrode or deteriorate during normal conditions of storage and use
			5. Total fatty substance, %m/m	30.00(Min)
			6. Water Content, %m/m	60.00(Max)
			7. Lathering (foaming)	100.00(Min)
			8. Free caustic alkali	To pass the test
			9. Aerobic Plate Count/gm	1000 (Max)
			10. Presence of Pathogen	Nil
			11. Lead (as pb) ppm	20.00 (Max)
			12. Arsenic (as AS_2O_3), ppm	2.00 (Max)
8.	Shaving Foam	BDS 1986: 2021	1. Description	Shaving foam shall be easily applied and free from any objectionable odour. It shall be white or pigmented and of uniform colour
			2. Dermatological safety	Passes the tests
			3. pH of 10% solution at $(27 \pm 2)^{\circ}$ C	7.0-10.5
			4. Internal Pressure, psig at 21° C	40-100
			5. Mercaptan, ppm, Max.	5.00 (Max)
			6. Heavy metals as (Pb), ppm,	20.00 (Max)
			7. Arsenic (as As_2O_3), ppm,	2.00 (Max)
			Microbial count:	
			8. a) Total viable count, cfu/g,	1000 (Max.)
			9. b) Gram negative pathogen, cfu/g	Absent

<u>SI No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
9.	After Shave Lotion , Type -1 (Alcoholic)	BDS 1524: 2006	1. Description	The sample shall be in the form of transparent/translucent/opaque aqueous ethanolic/emulsified solution containing perfume oil and shall be free from sediment.
			2. Alcohol Content, %V/V	5-70
			3. Stability of smell	The smell of lotion can be clearly picked up after eight hours.
			4. Methanol	Absent
	After Shave Lotion, Type – 2 (Non-Alcoholic)	BDS 1524: 2006	1. Description	It shall be a transparent/translucent/ opaque aqueous ethanolic or emulsified solution containing perfume oil and shall be free from sediment. It may also contain emollients, antiseptic agents, denaturants, astringents, colouring agents etc.
			2. Stability of smell	The smell of lotion can be clearly picked up after eight hours.
			3. Cloud temperature	No turbidity shall appear at Cooling Temp. to +5°C
			10.	Shampoo, surfactant based
2. Active detergent content as SLES or its equivalent, % m/m	3.00 (Min)			
3. pH at 27 ± 2 ° C	4.0 – 9.0			
4. Foam height for two percent solution	150.00 mm (Min)			
5. Arsenic (mg/kg),	2 (Max)			
6. Lead (mg/kg),	20 (Max)			
7. Mercury (Hg).mg/kg	1.0(Max)			
8. Cadmium (cd).mg/kg	3.0(Max)			
9. Aerobic Plate Count, per ml,	1000 (Max)			
Pathogenic bacteria				
10. i) Pseudomonas aeruginosa	Absent in 10 ml			
11. ii) Staphylococcus aureus	Absent in 10 ml			
12. iii) Escherichia Coli	Absent in 10 ml			
13. iv) Candida albicans	Absent in 10 ml			

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
11.	Hair Dye, Liquid	BDS1338: 2023 (1 st Rev.)	For Dye	
			1. pH	6.0 – 11.0
			2. Total Active Matter (Dye Content), Percent by Mass	3.0 (Max)
			3. Heavy metals (as Pb), ppm	20 (Max)
			4. Arsenic (as As ₂ O ₃), ppm	2 (Max)
			For Developer	
			5. pH	1.8 to 4.0
			6. Assay (as H ₂ O ₂), percent (m/v)	12 (Max)
12.	Hair Cream	BDS1420: 2024(1 st Rev.)	1. Thermal Stability	To pass the test
			2. pH	5.0-9.0
			3. Total Fatty Substance Content, %m/m	15(min)
			4. Water Content,%/m, max	85
			5. Test for Rancidity	Shall be free from rancidity
			6. Total microbial count, max	1000
			7. Mould Count, max	100
13.	Hair Oils	BDS1339: 2018	1. Description	The sample shall be colourless or coloured, with or without perfumed and free from sediment suspended matter.
			2. Acid value	1.00 (Max)
			3. Peroxide value, milliequivalents/1000g	7.50 (Max)
			4. Total Viable Count/ml	1000 (Max)
14.	Coconut Oil	BDS 99: 2007	1. Description	The material shall be clear and free from sediment, suspended and other foreign matter, and separated water.
			2. Moisture, volatile matter and insoluble impurities,% m/m	0.10 (Max)
			3. Colour in a 2.5 cm cell on lovibond scale expressed as Y+5R	Not deeper than 2.0
			4. Refractive index at 40°C	1.4480-1.4500
			5. Specific gravity at 30/30 °C	0.915-0.920
			6. Saponification value, mg/g	248-265
			7. Iodine value (wijs)	6-11
			8. Acid value, mg/g	0.60 (Max) 1.5 for perfumed, (Max)
			9. Unsaponifiable matter,%m/m	0.50 (Max)
			10. Melting point °C	24-27

<u>SI No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
			11. Titre value °C	20-24
			12. Polenske value	13-18
			13. Reichert value	6-8.50
			14. Flash point, pensky martens (Open) °C	100.0 (Min) (For crude grade)
			15. Peroxide value milliequivalents oxygen/kg)	10.00 (Max)
			16. Iron (as Fe),mg/kg	1.50 (Max)
			17. Copper (Cu),mg/kg	0.10 (Max)
			18. Lead (Pb),mg/kg	0.10 (Max)
			19. Arsenic (As),mg/kg	0.10 (Max)
15.	Skin Powder	BDS1337:2024 (2 nd Rev.)	1. Description	The body powders shall consist principally of a finely powdered free flowing absorbent innocuous material such as natural talc and may contain small amounts of perfume and colouring matter.
			2. Matter insoluble in boiling water, %m/m	90.00 (Min)
			3. Fineness:	
			a)Residue on 75 micron sieve,%m/m	2.00 (Max)
			b) Residue on 150 micron sieve, %m/m	0.50 (Max)
			4. Moisture and volatile matter,% m/m	2.00 (Max)
			5. pH of aqueous suspension	5.5 to 10.00
			6. Heavy metal (as Pb), ppm	20.00 (Max)
			7. Arsenic (as AS ₂ O ₃), ppm	2.00 (Max)
			8. Dermatological safety(use test)	It Shall not bring harmful effect to the body.
			Microbial content: limit	
			9. a) Total viable count cfu/g,	1000 (Max)
			10. b) Gram Negative pathogens	Less than 10
16.	Skin Cream	BDS1382: 2024 (4 th Rev.)	1. Description	The skin cream shall be in the form of a thick emulsion or unctuous mass, with a pleasant odour. It shall be white or pigmented or of uniform colour.
			2. Thermal stability at 45°C (Min)	Stable for two days
			3. pH	5.00 to 8.00
			4. Total fatty substance content, m/m	10.00 (Min)
			5. Residue on evaporation 105°C, % m/m	10.00 (Min)
			6. Heavy metals(as Pb), ppm	20.00 (Max)
			7. Arsenic (as AS ₂ O ₃), ppm	2.00 (Max)
			Microbial content: limit	
			8. a) Total viable count cfu/gm	Not more than 1000
			9. b) Gram negative pathogens (E-coli)	Less than 10
			10. Dermatological safety (Use test)	It shall not bring harmful effect to the body.
			11. Mercury (aHg), ppm, Below	1
			12. Hydroquinone, ppm, Below	5

<u>SI No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
17.	Skin Lotion	BDS 1923: 2019	1. Description	The skin lotions shall be in the form of a thick emulsion or unctuous mass, with a pleasant odour. It shall be white or pigmented or of uniform color.
			2. Thermal stability at 45±1°C for 48 hrs	Stable for two days
			3. pH	5.00 to 8.00
			4. Total fatty substance content, %m/m	5.00 (Min)
			5. Non Volatile Matter at 105°C, % m/m	10.00 (Min)
			6. Water content, %m/m	90.00 (Max)
			7. Peroxide Value, mg/Kg	10.0 (Max)
			8. Total viable count cfu/g	Not more than 1000
			9. Pseudomonas aeruginosa, in 10 ml	Less than 10
			10. Staphylococcus aureus, in 10 ml	Less than 10
18.	Nail Polish (Nail Enamel)	BDS1421: 1992 Reaff.2021	1. Description	Nail polish shall be glossy on the nails after complete drying. Moreover, it shall not leave a stain on the nails after being removed with the aid of nail polish remover.
			2. Non-volatile matter, % m/m,	25.00 (Min)
			3. Drying time, in minutes, Max.	3
			4. Adhesion Test	To pass the test
			5. Scratch Test	To pass the test
			6. Blush test	To pass the test
			7. Heavy metals(as Pb), Max	To pass the test
19.	Lipstick	BDS1424: 2024 (1 st Rev.)	1. Description	The sample shall be firm but not brittle in texture. It shall have an attractive appearance, pleasant taste and feel on the lips and shall be reasonably free from sweating bloom and rancidity.
			2. Softening point, °C	55.00 (Min)
			3. Microbiological examination	Not more than 100 micro organisms per gm
			4. Rancidity (Peroxide value) mili equivalent /kg	10.00 (Max)
			5. Breaking load value,in gm	200.00 (Min)
			6. Particle size of undispersed pigments, micron	40.00 (Max)
			7. Arsenic (as As ₂ O ₃), ppm	2.00 (Max)
			8. Heavy metals (as Pb), ppm	20.00 (Max)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
20.	Petroleum Jelly	BDS 1597: 2023	1. Description	Petroleum jelly shall be in the form of a translucent, soft mass, unctuous to the touch and retaining these characteristics on storage and also when melted and allowed to cool without stirring. It shall be not more than slightly fluorescent by daylight, even when melted. It may contain fragrances or herbal extracts/ powder.
			2. Solubility	The Sample shall be insoluble in water; soluble in dichloromethane, chloromethane, diethyl ether, carbon disulfide and turpentine. It shall be slightly soluble in alcohol.
			3. Odour	The material shall be not of an objectionable odour at room temperature when rubbed on the skin. Further, the material when heated to 95 to 98 °C on a boiling water bath for 30 minutes shall give no disagreeable odour
			4. Bleeding	Petroleum jelly shall not bleed under normal conditions of storage
			5. Melting range, °C	40 to 80
			6. Specific gravity at 60 °C, g/cc	0.800 to 0.880
			7. pH	5.0 – 8.0
			8. Organic acids	To pass the test
			9. Sulphated ash, % m/m, Max	0.10 or 0.15 (Herbal/perfumed)
			10. Sulphur and sulphides	To pass the test
			11. Iodine value (Wijs), Max	3
			12. Volatile matter, % m/m,	5(Max.)
			13. Lead (as Pb), ppm, Max.	20
			14. Arsenic (as As ₂ O ₃),ppm,	2 (Max)
			15. Mercury (as Hg), ppm,	1 (Max)
21.	Baby Oil	BDS 1766: 2019	1. Description	The sample shall be clear, colorless light mineral oil or vegetable oil containing emollients. It may be perfumed and free from foreign matter.
			2. Peroxide Value, milliequivalent/ kg	0.6 (Max)
			3. Relative Density at 20 °C	0.82-0.88
			4. Saponification Value	4.8 (Max)
			5. Acid Value	0.14 (Max)
			6. Sulfur and Sulfides	To pass the test
			7. Arsenic, mg/kg	1.00 (Max)
			8. Lead (pb), mg/kg	2.00 (Max)
			Microbiological limits.	-
			9. i) Aerobic Plate Count, per ml	500 (Max)
			10. ii) Pseudomonas aeruginosa	Absent in 10 ml
11. iii) Staphylococcus aureus	Absent in 10 ml			

<u>SI No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
22.	Baby Toilet Soap	BDS 1798: 2019	1. Total fatty matter, %m/m	78.00 (Min)
			2. Moisture and Volatile Matter, % m/m	15.0 (Max)
			3. Matter insoluble in ethanol, % m/m	1.50 (Max)
			4. Matter insoluble in water,% m/m	0.50 (Max)
			5. Free caustic alkali (as NaOH), % m/m	0.03 (Max)
			6. Chlorides (as NaCl), % m/m	1.00 (Max)
			7. Free Carbonated alkali, % m/m	0.50 (Max)
			8. Free from Rosin	To pass the test
			9. Free from Grit	To pass the test
			10. Nickel content	Nil
			11. Iron content, ppm	10.00 (Max)
			12. Copper (as Cu) contents,ppm	3.00 (Max)
			13. Arsenic (as As ₂ O ₃), mg/Kg,	1.50 (Max)
			14. Lead (as Pb), mg/Kg,	10.00 (Max)
			15. Mercury (as Hg), mg/Kg,	1.00 (Max)
			16. Titre, °C	25.00 (Min)
23.	Baby Skin Powder	BDS 1844: 2011	1. Description	Skin powder for babies shall consist principally of a finely powdered, free flowing absorbent innocuous material such as natural talc and may contain a mild perfume and other raw materials. The material shall be free from boric acid.
			2. Matter insoluble in boiling water, %m/m	90.00 (Min)
			3. Fineness:	
			a) Residue on 75 micron sieve,%m/m	2.00 (Max)
			b) Residue on 150 micron sieve, %m/m	0.10 (Max)
			4. Moisture and volatile matter, %m/m	1.00 (Max)
			5. pH of aqueous suspension	5.5 to 9.00
			6. Heavy metal (as Pb), ppm	20.00 (Max)
			7. Arsenic (as As ₂ O ₃), ppm	2.00 (Max)
8. Dermatological safety (use test)	It Shall not bring harmful effect to the body.			

<u>SI No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
24.	Baby Skin Lotion/ Skin Cream for Babies	BDS 1858: 2019	1. Description	The product shall be a homogeneous emulsion or unctuous mass, with a pleasant odour. It may be white or pigmented and of uniform colour.
			2. Thermal stability	To pass the test
			3. pH	5.00 to 8.00
			4. Non-volatile matter at 105°C,% m/m	10.00 (Min)
			5. Water content, %m/m	90.00 (Max)
			6. Peroxide value, milli-equivalents oxygen/kg	10 (max)
			7. Aerobic plate count per mL	500 (Max)
			8. Pseudomonas aeruginosa	Absent in 10 gm
			9. Staphylococcus aureus	Absent in 10 gm
25.	Baby Shampoo	BDS 1884:2014	1. Description	The sample shall be in the form of a liquid, emulsion or paste. It may be colored and perfumed.
			2. Active synthetic anionic ingredient content, % m/m	3.00 (Min)
			3. pH at 27 ± 2 ° C	6.0 – 7.5
			4. Inorganic Salts, % by mass	3.00 (Max)
			5. Lather Volume for one percent solution	100.00 mm (Min)
			6. Formaldehyde content	Absent
			7. Aerobic Plate Count, per ml,	100 (Max)
			8. Pseudomonas aeruginosa	Absent in 10 ml
			9. Staphylococcus aureus	Absent in 10 ml
26.	Natural Henna/ Mehedi (Powder and Paste)	BDS 1966: 2019	1. Description	The product shall be in the form of fine dried powder obtained from fresh leaves of henna plant. It shall be free from extraneous adulterants.
			2. Moisture and volatile matter, % m/m	10.00 (Max)
			3. Cold water extract,% m/m	25.0-32.0
			4. Crude fibre, % m/m	10.0-15.0
			5. Mineral matter, % m/m	5.0-12.0
			6. Acid insoluble ash,% m/m	3.0-6.0
			7. Extraneous sand,% m/m	5.0 (Max)
			8. Presence of extraneous dyes	To pass the test

SI No.s	Product Name	BDS No.	Test Parameters	Standard Limit
			9. Lawsone Pigment, % m/m	1.0 (Min)
			10. pH value at 27±2 °C (for powder 20.0 % solution & directly for paste)	5.0-7.0
			11. Heavy metals (as Pb), ppm	20.00 (Max)
			12. Arsenic (as As ₂ O ₃), ppm	2.00 (Max)
			13. Microbial Content:	
			a) Total viable count, cfu/g	350
			14. b) Gram negative pathogens	<10
27.	Synthetic Colour Paste	BDS 1967: 2019	1. Description	The product shall be manufactured in paste form. It shall be in the form of a smooth, semisolid, homogeneous mass. It shall be free from extraneous adulterants.
			2. Moisture and volatile matter, % m/m	95.00 (Max)
			3. Cold water extract,% m/m	1.0 (Min)
			4. Mineral matter, % m/m	2.00 (Max)
			5. Acid insoluble ash,% m/m	1.0 (Max)
			6. Presence of extraneous dyes	To pass the test
			7. Extraneous sand,% m/m	1.0 (Max)
			8. pH value at 27±2 °C (for 20.0 % solution)	5.00-7.00
			9. Heavy metals (as Pb), ppm	20.00 (Max)
			10. Arsenic (as As ₂ O ₃), ppm	2.00 (Max)
			Microbial Content:	
			11. a) Total viable count, cfu/gm	1000.0 (Max)
			12. b) Gram negative pathogens	Less than 10
28.	Eye Care Products	BDS 1987:2021	1. Glueing and Warpage of casing	The finished pencils shall be kept for 48 hours in a desiccator filled with water. The casing shall not separate. The warpage of casing in 80 percent of the sample shall not exceed 0.5 mm and in remaining 20 percent of the sample, shall not exceed 1.0 mm.
			2. The wear of slip	(mg/100 cm ² area of paper) Min. 2
			3. Melting point, °C, (Except liquid eye care products)	50 (Min)
			4. pH, 10% dispersion	6.5-7.5
			5. Peroxide value, m.eq./1000 g, (Only for liquid eye careproducts)	10 (Max)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
			6. Freedom from grits	To pass the test
			7. Arsenic as As ₂ O ₃ ppm	2.00 (Max)
			8. Mercury (as Hg), ppm	1.00 (Max)
			9. Heavy metals (as Pb) ppm	20.00 (Max)
			Microbiological examination:	
			10. a) Total viable count, CFU/g	Not more than 1000
			11. b) Gram negative Pathogens, cfu/g	Less than 10
29.	Kajol	BDS 1949: 2018	1. Description	The kajal shall be homogenous waxy mass, moulded either in pots, stick or pencil form. It shall be black in shade and shall be reasonably free from sweating and rancidity
			2. Melting point, °C, Min	50
			3. Peroxide value, m.eq./1000 g,	10 (Max)
			4. Freedom from grits	To pass the test
			5. Arsenic as As ₂ O ₃ ppm, Max	2
			6. Heavy metals (as Pb) ppm,	20 (Max)
			7. pH, 10% dispersion	6.5 – 7.5
			8. Total viable count, cfu/g,	1000 (Max)
			9. Gram negative Pathogens,cfu/g	Less than 10
30.	Face wash	BDS 2000: 2022	1. Description	The face wash shall be in the form of a liquid, emulsion, gel, paste and powder. Face wash may be coloured/colourless. It may also be perfumed or mild perfumed.
			2. Surface Active Ingredients,% by Mass	3 (Min)
			3. Stability at 45±1 °C for 48 hours phase separation	To pass the Test
			4. pH, 10% solution	10-Apr
			5. Plastic micro beads	Absent
			6. Heavy metals (as Pb), ppm	20 (Max)
			7. Arsenic (as As ₂ O ₃), ppm	2 (Max)
			8. Mercury (as Hg), ppm	2 (Max)
			Microbial content / limit	
			9. Total viable count cfu/g	Not more than 1000
			Pathogenic bacteria, in 10 mL	
			10. Candida albicans	Absent
			11. Staphylococcus aureus	Absent
			12. Group A Streptococcus	Absent
			13. Pseudomonas aeruginosa	Absent
			14. Escherichia coli	Absent

<u>SI No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
31.	Face Pack	BDS 1977: 2020	1. Description	Face packs shall be a smooth paste or fluid or dry powder free from any gritty particles. It may be coloured for aesthetics and may contain natural or synthetic scrubbing materials.
			2. Dermatological safety (Use test)	When used in the normal manner, the face pack shall not bring about any other harmful effect to the body in general.
			3. pH at 27°C	5.00 – 9.00
			4. Loss on drying, % by mass,	5 (Max)
			5. Ash content, % by mass	85.00 (Min)
			6. Plastic micro beads	Absent
			7. Heavy metals (as Pb), ppm	20
			8. Arsenic (as As ₂ O), ppm, Max	2
			Microbial content/limit	
			9. a) Total viable count cfu/gm	Not more than 1000
10. b) Gram negative pathogens	Less than 10			

Chemical Testing Wing

Group: Fertilizer products (4)



Fertilizer

Group: Fertilizer products (4)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
1.	Aluminium Sulphate, Non-Ferric	BDS 149: 2014 (2 nd Rev.)	1. Description	The material shall be in the form of white, slightly deliquescent crystals or granules.
			2. Insoluble matter, per cent by mass, Max	0.02
			3. pH (5 per cent solution),	2.9 (Min)
			4. Heavy metals (as Pb), parts per million, Max	40
			5. Iron (as Fe), per cent by mass	0.004 (Max)
			6. Chlorides	—
			7. Arsenic (as As ₂ O ₃), ppm	8 (Max)
			8. Ammonium salts (as NH ₃), per cent by mass	0.025 (Max)
			9. Aluminium (as Al ₂ O ₃) percent by mass	16.6-17.6
			10. Sodium (as Na), per cent by mass, Max	—
			11. Potassium (as K) per cent by mass, Max	—
2.	Triple Super Phosphate (T.S.P)	BDS 216: 1991 (1 st Rev.), Amendment No 1,2: 2007	1. Description	The material shall be free from excessive lumps and shall not form hard cakes on storage.
			2. Total phosphate (as P ₂ O ₅), %m/m	46.0 (Min)
			3. Water soluble phosphate (as P ₂ O ₅), %m/m	40.0 (Min)
			4. Free phosphoric acid,(as P ₂ O ₅), %m/m	3.0(Max)
			5. Moisture, %m/m	5.0(Max)
			6. Particle size: Particle retained on 1.00 mm sieve, %m/m	85.0 (Min)
3.	Urea (Fertilizer)	DS 217:2011 (2 nd Rev.)	1. Description	The material shall be in the form of prills, pellets or shots. It shall be free from visible impurities and from dust.
			2. Particle size:	
			a) Particle retained on 4.75 mm sieve, % m/m	10.0 (Max)
			b) Particle retained on 2.00 mm sieve, % m/m	93.0 (Min)
			3. Moisture, % m/m	0.5(Max)
			4. Total Nitrogen, %m/m	46.0(Min)
5. Biuret, %m/m	1.5 (Max)			

<u>SI No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
4.	Diammonium Phosphate	BDS 1628: 2000	1. Total nitrogen (in ammoniacal form) percent by mass, min	18
			2. Total phosphates (as P ₂ O ₅) percent by mass, min	46
			3. Water soluble phosphates (as P ₂ O ₅) percent by mass,	41(Min)
			4. Moisture, percent by mass,	1 (Max)
			5. Particle size	Minimum 90 percent of the material shall pass through 4mm BDS Sieve and be retained on 1 mm BDS Sieve. No more than 5 percent shall be lower than 1 mm size

Chemical Testing Wing

Group: Textiles and textile products (5)



Disposable diaper



Biosafety Cabinet-Microbiological testing under aseptic condition



Incubator-Microbial growth observation

Group: Textiles and textile products (5)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
1.	Disposable Diaper	BDS 2006: 2022	1.Total Viable Bacterial Count per/gm	600 (Max)
2.	Nonwoven Wipes	BDS 2017: 2023	1.Total viable count (cfu /gm),	100 ((Max))
3.	Reusable Sanitary Napkin	BDS 2024: 2024	1. Total Viable Bacterial Count per Sanitary napkin	1000 (Max)
4.	PVC Pipe for Electrical Conduits	BDS EN61386- 21; 2010	1. Resistance to corrotion	To pass test
5.	Sanitary Napkin	BDS 1261: 2019	1.Total Viable Bacterial Count per Sanitary Towel	1000 (Max)

Chemical Testing Wing

Group: Gold and Building Materials (6)



Sampling of MS Rod and cement



Sulphur measurement by Strohlein apparatus



Fineness of gold determination by EDXRF

Group: Gold and Building Materials (6)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
1.	GP Sheet	BDS1122: 1987 Reaff.2021	1 Thickness with Zn-coating, mm	0.394 (Min)
			2. Thickness of base metal, mm	0.350in)
			3, Thickness of Zn-coating, mm Weight of zinc coating (Z 22), g/m ²	0.044 (Min)
2.	Cement	BDS EN 197-1:2003, Reaff.2010	1. Loss on ignition, %m/m	≤ 5.0
			2. Insoluble residue, % m/m	≤ 5.0
			3. Sulfate content (as SO ₃), % m/m	≤ 4.0
			4. Chloride content (as Cl),% m/m	≤ 0.10
3.	Steel for the Reinforcement of Concrete	BDS ISO 6935-2:2021	1. Carbon (C),% m/m	0.22(Max)
			2. Sulphur (S),% m/m	0.050 (Max)
			3. Phosphorous (P), % m/m	0.050 (Max)
			4. Silicon (Si), % m/m	0.60 (Max)
			5. Manganese (Mn), %m/m	1.60 (Max)
4.	Structural Steel and Angels	BDS ISO 630:1,2,3	1. Carbon (C), % m/m	0.24(Max)
			2. Sulphur (S), % m/m	0.035 (Max)
			3. Phosphorous (P), % m/m	0.035 (Max)
			4. Silicon (Si), % m/m	0.55 (Max)
			5. Manganese (Mn), % m/m	1.60 (Max)
5.	Mild steel (MS) pipe & Galvanized Iron (GI) pipe	BDS 1031: 2006	1.Description	The zinc coating shall be uniform, adherent, reasonably smooth and free from such imperfections as flux, ash and dross inclusions, bare patches, black spots, pimples, lumpiness, runs rust stains bulky white deposits and blisters.
			2.Weight of zinc coating, gm/m ²	40.00 (Min)
			Phosphorous, %m/m	0.060 (Max)
			3.Sulphur (as S), %m/m	0.060 (Max)
			4.Carbon(as C), %m/m	0.17- 0.25
			5.Manganese(as Mn), %m/m	0.95- 1.20

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>	
6.	Gold and Gold Alloys-Grade and Marking	BDS 1515: 2021 (1st Revision)		Grade	Fineness (Min),Parts per thousand
			1.Gold, (as Au) % m/m	For Fine Gold	999(Min)
				For standard Gold	990
			22 carat	916.6	916
			21 carat	875	875
			18 carat	750	750
			14 carat	585	585
			10 carat	417	417
			9 carat	375	375
			8 carat	333	333

Chemical Testing Wing

Group: Glass, Ceramic and Melamine products (6)



Release of Lead and Cadmium process



Resistance to chemical test of ceramic tiles



Trace element analysis by AAS

Group: Glass, Ceramic and Melamine products (6)

<u>Sl No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
1.	Ceramic Tableware	BDS 485: 2000 amend.3:2006	1. Material	The table ware shall be fired ceramic ware covered by glaze properly matured and fused with the body. The body shall show upon fracture a dense homogeneous vitrified texture. The glaze shall be of uniform colour, impervious and as free as possible from visual defects.
			2. Finish	Except for the resting surface (bottom rim) of the hollow ware, the entire surface of items of table ware shall be covered by a uniform and continuous, hard impervious glaze, which is cleanable and retain this quality in addition the resting surface of items other than hollow ware shall be non-abrasive in texture. The glazed surface shall be free from defects namely craze, Crawling patches and finger prints.
			3. Wet ability	Table ware used for eating purposes shall pass the test.
			4. Cadmium (Cd). released, mg/dm ²	0.07(Max)
			5. Lead (Pb), released, mg/dm ²	0.8 (Max)
2.	Tableware made of melamine molding compound	BDS1425: 2009	1. Description	The finished table ware shall contain no constituents that are capable of being extracted by food stuffs under normal conditions of use, in quantities sufficient to be injurious to health and shall not give any smell or impart any colour when subjected to free boiling in water for 10 minutes.
			2. Finish	The surface of all table wares shall be reasonably free from imperfection such as orange peel, flow lines and contamination. The surface shall not be altered by application of lacquer, polish or coating. The finished table ware shall have rounded edges and shall be clean, well made and free from any visible defects such as sports, bubbles, holes, cracks, impurities and surfaces scratches.
			3. Cure test	a)With the dye test, the article shall show not more than slight staining of the surface except at flash lines. b) With the sulphuric acid test, the article shall show no chalking.
			4. Resistance to wet heat	Article shall not develop cracks or any other defects that will impair their serviceability or appearance. The internal volume of the article shall not reduced by more than 4% of the initial value. It shall not be possible to insert a 0.37mm feeler gauge at any point between the feet or base of the articles.

<u>SI No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
			5. Resistance to dry heat.	The table ware shall not develop cracks, nor shall show signs of surface marking or of any other defect that will impair their serviceability or appearance.
			6. Resistance to staining	The table ware shall also pass the test with citric acid 2 % solution, coffee, cooking fat with turmeric power 1 % milk or butter milk, Tea infusion.
			7. Extractability Requirements	a) Extractability of formaldehyde: The colour of the test solution shall not be deeper than that of the reference solution. b) Extractability of oxidizable matter: The extracted solution shall not consume more than 10 mg/kg of $KMnO_4$ c) Extractability of Lead: The colour of the test solution shall not be deeper than that of the reference solution.
3.	Table ware made of urea molding Compound	BDS 1825:2011	1. Description	The finished table ware shall contain no constituents that are capable of being extracted by food stuffs under normal conditions of use, in quantities sufficient to be injurious to health and shall not give any smell or impart any colour when subjected to free boiling in water for 10 minutes.
			2. Cure test	The extractives of sample surface shall not exceed 0.5 milligram per square inch.
			3. Resistance to boiling water	No cracks or marks or any other defects shall show at the surface.
			4. Resistance to dry heat.	No cracks or marks or any other defects shall show at the surface.
			5. Resistance to low temperature test.	The sample shall not break or develop cracks at temperature between 0° C & 7° C
4.	Glass Table ware	BDS 1874: 2013	1. Description	The tableware shall be as free as possible from strain and visible defects. It shall be as far as possible free from any colour as seen transversely through the body, except in the case of coloured or decorated articles. In the case of the latter, the depth of the colour and its distribution through the body and decoration shall be subject to agreement between the purchaser and supplier.
			2. Thermal Shock	To pass the test
			3. Limit of alkalinity	To pass the test
			4. Limits of Release of Lead and Cadmium	As per limit in the table

<u>SI No.s</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
5.	Sanitary Ware appliances	BDS 1162: 2014	1. Description	The material shall not show to the unaided eye of a trained observer, blemishes or defects of discoloration, spot, blisters and pinholes, bubbles and specks.220.00 (Min)
			2. Resistance to Chemicals	Shall not show any loss of reflectivity on the glaze of the sample.
			3. Resistance to staining and burning.	No stain shall remain on the test pieces.
6.	Ceramic Tiles	BDS ISO 13006	1. Resistance to staining	Class -3 (Min)
			Resistance to chemical :	
			2. a) Resistance to low concentrations of acids &alkalis	There shall be no attack on the surface.
			3. b) Resistance to high concentrations of acids &alkalis	There shall be no attack on the surface.
			4. c) Resistance to household chemicals and swimming pool salts	Minimum GB

Physical Testing Wing

Civil, Physical & Mechanical Division

Group: Stationery Products (9)



Tensile properties test of Tissue



Tensile properties test of paper

Mandatory Products and their parameters of Physical Testing Wing

Division: Civil, Physical & Mechanical

Group: Stationery Products (9)

<u>Sl. No.</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
1.	Writing & Printing Paper	BDS 405: 2012 (2 nd Revision)	1. Appearance test	Shall be of uniform formation evenly finished fully sized and generally free from specks, holes and other blemishes
			2. Avg. Length in mm	As per Declaration
			3. Avg. Width in mm	As per Declaration
			4. Individual Min ^m Basis Weight in gm/m ²	As per Declaration
			5. Individual Max ^m Basis Weight in gm/m ²	As per Declaration
			6. Avg. Basis Weight in gm/m ²	As per Declaration
			7. Tensile Index (Cross direction) in Nm/g	Min ^m 17
			8. Tensile Index (Machine direction) in Nm/g	Min ^m 25
			9. Brightness in percent	Min ^m 75
			10. Opacity in percent	Min ^m 75
			11. One minute Cobb test in g/m ²	23-28
			12. Tear Index (Cross direction) in mN.m ² /g	Min ^m 4.0
			13. Tear Index (Machine direction) in mN.m ² /g	Min ^m 3.5
2.	Newsprint	BDS 845: 2012 (2 nd Revision)	1. Appearance test	As per Declaration
			2. Length in mm	As per Declaration
			3. Width in mm	As per Declaration
			4. Basis weight in g/m ²	As per Declaration
			5. Thickness in μm	As per Declaration
			6. Brightness in percent	As per Declaration
			7. Opacity in percent	Min ^m 90
			8. Top side Smoothness (Bendsten) in ml/min	Max ^m 250
			9. Wire side Smoothness (Bendsten) in ml/min	Max ^m 300
			10. Porosity in ml/min	Max ^m 800
			11. Tensile Index (Machine Direction) in N.m/gm	Min ^m 35
			12. Tensile Index (Cross Direction) in N.m/gm	Min ^m 15
			13. Breaking length (Machine Direction) in meter	Min ^m 2880
			14. Breaking length (Cross Direction) in meter	Min ^m 1500
			15. Tear Index (Machine Direction) in mN.m ² /gm	Min ^m 3.8
			16. Tear Index (Cross Direction) in mN.m ² /gm	Min ^m 4.5
			17. Moisture in percent	Max ^m 8.0
			18. Mechanical Pulp	Min ^m 65

Sl. No.	Product Name	BDS No.	Test Parameters	Standard Limit
3.	Ball Point Pens	BDS 1384: 2002 (1 st Revision)	1. Barrel	As per Declaration
			2. Projection of writing tip from barrel in mm	3.0 ± 1.0
			3. Tip classification test (Tip shall be classified according to ball diameter)	As per Declaration
			4. Cap tightness test	The cap of pen shall fit securely at both ends of the pen barrel and shall not show any sign of crack
			5. Pocket clip tightness test	Shall not tear or injure the cloth or shall not fall off completely to which the pen is clipped
			6. Starting characteristics test	Shall start writing a line within a distance of 15mm
			7. Drying time test	Writing shall dry within 5 seconds and shall not smear
			8. Accelerated ageing test	Pen barrel and cap shall show no sign of cracks, warp, discoloration or loss of rigidity and shall show no evidence of leakage
			9. Smoothness the line continuity test	Shall have a good continuity and smooth writing without splitting
			10. High temperature leakage test	Shall show no evidence of leakage
			11. Finish of ball point pen	Shall have a smooth finish and shall have no sharp edges or feathers
			12. Load test	There shall be no impairment of the refill or writing tip and shall be no permanent set, breaking or cracking of the barrel.
4.	Pencils	BDS 330: 1993 (1 st Revision) Ammend-1: 2006	1. Material and Workmanship: a) Slip	As per Declaration
			b) Casing	As per Declaration
			2. Shapes	As per Declaration
			3. Dimension of pencil in mm a) Length b) Diameter	177±3 As per Declaration
			4. Gluing and Warpage of wood casing	The casing shall not separate
			5. Diameter of Slip in mm	As per Declaration
6. Slide of Slip	The slip shall not slide in the pencil casing			

<u>Sl. No.</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
5.	Color Pencils	BDS 2020: 2023	1. Diameter of lead in mm	as per declaration
			2. Diameter of casing in mm	Max ^m 8
			3. Length in mm	Min ^m 172
			4. Coming-off of lead	Lead does not come
			5. Bend of casing in mm	Max ^m 0.4
			6. Eccentricity of lead in mm	Max ^m 0.3
			7. Tightness of paper casing	as per declaration
			8. Flexural strength in MPa	as per declaration
6.	Eye Care Products	BDS 1987: 2021	1. Warpage of casing (80 percent of the sample) in mm	Max ^m 0.5
			2. Warpage of casing (20 percent of the sample) in mm	Mx ^m 1.0
			3. Material and Workmanship	The slip shall be in one piece, free from the grits to produce smooth, even and uniform lines.
			4. Gluing of casing	The casing shall not separate.
			5. Wear of sleep in mg/100cm ²	Min ^m 2
7.	Toilet Tissue Paper	BDS 1745: 2022 (1 st Revision)	1. Appearance Test	The paper shall clean and free from foreign matter, stains and holes. In a roll, it shall be possible to separate the sheets cleanly at the perforations.
			2. Width in mm	Min ^m 90
			3. Length per roll in meter	As per Declaration
			4. Core Diameter in mm	As per Declaration
			5. Thickness in micron	Min ^m 70
			6. Grammage in g/m ²	15-25
			7. Tensile Strength (Machine direction) in kgf/15mm/ply	Min ^m 0.10
			8. Tensile Strength (Cross direction) in kgf/15mm/ply	Min ^m 0.05
			9. Elongation in percent	Min ^m 15
			10. Water Absorption capacity in g/g	Min ^m 6.0

<u>Sl. No.</u>	<u>Product Name</u>	<u>BDS No.</u>	<u>Test Parameters</u>	<u>Standard Limit</u>
8.	Facial Tissue Paper	BDS 1723: 2022 (1 st Revision)	1. Appearance Test	Shall be free from embedded abrasive particles, lint, fibre bundle, holes, specks and other visible defects.
			2. No. of Ply	Min ^m 2
			3. Color	shall be white
			4. No. of Sheets per pack	As per Declaration
			5. Length in mm	As per Declaration
			6. Width in mm	As per Declaration
			7. Thickness in micron	Min ^m 40
			8. Grammage in g/m ²	14 ± 1
			9. Breaking Length of one ply (Machine Direction) in meter	Min ^m 400
			10. Breaking Length of one ply (Cross Direction) in meter	Min ^m 200
			11. Breaking Length of four wet ply (Machine Direction) in meter	Min ^m 125
			12. Water Absorption capacity in g/g	Min ^m 6.0
9.	Manual Toothbrush	BDS ISO 20126:2023	1. Physical Inspection	shall be intact and free of visible contamination and sharp or rough surfaces
			2. The tuft removal force in N	Min ^m 15
			3. Filament End rounding	Filament without sharp geometries at the tips shall be at least 50 %
			4. Handle impact Strength (absorbed energy in J)	Min ^m 0.8
			5. Fatigue resistance	shall complete 75 000 cycles without breaking



Physical Testing Wing
Civil, Physical & Mechanical Division
Group: Leather and Synthetic Products (2)

Group : Leather and synthetic Products (2)

Sl. No.	Product Name	BDS No.	Test Parameters	Standard Limit
10.	Leather footwear (Physical)	BDS 1944: 2021 (1 st Revision)	1. Thickness	as per declaration
			2. Color Fastness (Dry) of Leather/ Synthetic/Textile Uppers	as per declaration
			3. Color Fastness (Wet) of Leather Uppers	as per declaration
			4. CF to Perspiration of Leather Uppers	as per declaration
			5. Flexing Resistance of Leather/ Synthetic/ Textile Uppers (“Bally Flex”)	as per declaration
			6. Abrasion resistance of leather uppers	as per declaration
			7. Tensile Strength & Elongation of Leather Uppers	as per declaration
			8. Water penetration of leather uppers	as per declaration
			9. Water vapor permeability	as per declaration
			10. Tear Strength of Leather upper (Double edge tear)	as per declaration
			11. Tear Strength of Synthetic/ TextileUpper	as per declaration
			12. Color Fastness (Dry) of Leather/ Synthetic/ Textile Lining	as per declaration
			13. Color Fastness (Wet) of Leather/ Synthetic/ Textile Lining	as per declaration
			14. CF to Perspiration of Leather/ Synthetic/ Textile Lining	as per declaration
			15. Abrasion resistance of Leather/ Synthetic/ Textile lining	as per declaration
			16. Tear Strength of Leather/Synthetic & Textile Lining (Trousers Tear)	as per declaration
			17. Surface Wetting of Fabric -Spray Test	as per declaration
			18. Water penetration of textile lining	as per declaration
			19. Flammability Test of textile lining	as per declaration
			20. Deviation of Fiber Content of textile lining	as per declaration
			21. Buckle strength	as per declaration
			22. Salt spray Test of Metallic Components	as per declaration
			23. Peel strength of velcro	as per declaration
			24. Shear strength of velcro	as per declaration
			25. Resistance of elastics	as per declaration
			26. Fatigue resistance of zipper	as per declaration
			27. Burst strength of zipper	as per declaration
			28. Puller Attachments strength of zipper	as per declaration
			29. Lateral Load of zipper (Breaking Strength of zipper)	as per declaration
			30. Breaking load of lace	as per declaration
			31. Lace to lace or lace to carrier Abrasion	as per declaration
			32. Insole Board flex index	as per declaration
			33. Hardness (Asker C) of middle sole	as per declaration
			34. Hardness (Shore A/C) of outer sole	as per declaration

Sl. No.	Product Name	BDS No.	Test Parameters	Standard Limit
			35. Abrasion resistance of outer sole	as per declaration
			36. Abrasion resistance - leather outsole	as per declaration
			37. Ross Flex Test -Resistance to cut growth	as per declaration
			38. Sole flex resistance-Bata belt	as per declaration
			39. Hydrolysis Resistance	as per declaration
			40. Shank Stiffness	as per declaration
			41. Shank fatigue resistance	as per declaration
			42. Heel fatigue resistance	as per declaration
			43. Heel Impact Resistance	as per declaration
			44. Abrasion Resistance of top piece	as per declaration
			45. Hardness (Shore A) of top piece	as per declaration
			46. Slip Resistance	as per declaration
			47. Safety toe compression	as per declaration
			48. Safety toe impact	as per declaration
			49. Washing	as per declaration
			50. Heel Attachment	as per declaration
			51. Sole Bond Peel Strength	as per declaration
			52. Whole footwear Flexing	as per declaration
			53. Top Piece Attachment	as per declaration
			54. Seam Strength	as per declaration
			55. Strength of Strap to sole attachment	as per declaration
			56. Strength of straps, buckles and related attachments	as per declaration
			57. Water Penetration of whole footwear	as per declaration
11.	Direct Moulded Sole (DMS) boots for general purposes	BDS 1555: 1997	1. Dimension	as per declaration
			2. Ball Burst test	as per declaration
			3. Shrinkage Temperature Test	as per declaration
			4. Adhesiveness test	as per declaration
			5. Soling material Abrasion Test	as per declaration
			6. Preparation of samples	as per declaration
			7. Tensile & elongation	as per declaration
			8. Tension set	as per declaration
			9. hardness	as per declaration
			10. Water absorption	as per declaration
			11. Adhesion	as per declaration
			12. Abrasion	as per declaration
			13. Rubber /metal bond strength	as per declaration
			14. Tear strength	as per declaration
			15. Compression stress strain	as per declaration
			16. Impact Brittleness	as per declaration
			17. Preparation of sample	as per declaration
			18. Colour fastness	as per declaration
			19. Density and specific gravity	as per declaration
			20. Swelling test	as per declaration
			21. Compression set	as per declaration
			22. Buckle tear loads	as per declaration

Physical Testing Wing

Civil, Physical & Mechanical Division
Group: Plastic & Rubber Products (9)



Dimension test of Water storage tank



Tensile properties test of pipe & Plastic



Pipe fitting



Hydrostatic Pressure test of Pipe

Group: Plastic & Rubber Products (9)

Sl. No.	Product Name	BDS No.	Test Parameters	Standard Limit
12.	Rotational Moulded Polyethelene Water Storage Tank	BDS 1699: 2002	1. Overall diameter in mm	As per Declaration
			2. Overall height in mm.	As per Declaration
			3. Internal diameter of man-hole/hand-hole in mm.	As per Declaration
			4. Wall thickness in mm.	As per Declaration
			5. Bottom thickness in mm.	As per Declaration
			6. Weight of tank (without lid) in kg	As per Declaration
			7. Resistance to Impact	Shall neither result into cracking nor puncture
			8. Tensile Strength of the wall in N/mm ²	Min ^m 12
13.	Unplasticized Polyvinylchloride (PVC-U) profiles for the fabrication of windows and doors	BDS EN 12608:2008	1. Appearance test (visual)	The surfaces of the profiles shall be smooth, flat and free from pitting, impurities, cavities and other surface defects
			2. Depth in mm	60.0 ± 0.3
			3. Overall width in mm	145.0 ± 0.5
			4. Wall Thickness of main profile in mm	As per Declaration
			5. Straightness of main profiles in mm	Max ^m 1.0
			6. Mass per m length of main profile in g/m	Min ^m 3325
			7. Heat reversion (R) of the two largest opposing sight surfaces in percent	Max ^m 2.0
			8. Behavior after heating at 150 °C	Profiles shall show no defects
14.	Plastics Piping Systems- Polyethylene (PE) pipes and fittings used for water supply	BDS ISO 4427-1, 2, 3: 2010	1. Colour	Shall be either blue or black or black with blue stripes
			2. Mean outside diameter in mm.	Min ^m 63.0 & Max ^m 63.4
			3. Out of roundness (ovality) in mm	Max ^m 1.5
			4. Pipe wall thickness in mm.	Min ^m 3.8 & Max ^m 4.3
			5. Elongation at Break in percent	Min ^m 350
			6. Longitudinal heat reversion test: Change of length in percent (Air oven method).	Max. ^m 3.0
			7. Hydrostatic strength at 200C at 1.6 MPa	No failure of any test piece during test period
15.	Pipes & Fittings Made of Unplasticized Polyvinyl Chloride (PVC-U) Used for potable water supply	BDS 1878:2015	1. Appearance test	The internal & external surface of pipe shall be smooth, clean and free from scoring, cavities and other surface defects.
			2. Mean outside diameter in mm	As per Declaration
			3. Out of roundness in mm	As per Declaration
			4. Wall thickness in mm	As per Declaration

			5. Impact Strength (True impact rate (TIR) in percent)	Max ^m 10
			6. Longitudinal heat reversion test in percent	Max ^m 5
			7. Resistance to internal hydrostatic pressure	Shall not fail
			8. Vicat Softening temperature (VST) in °C	≥ 80
			9. Uniaxial Tensile Strength in MPa	≥ 45
			10. Strain at Break in percent	≥ 80
16.	Containers for packaging of Mineral Water & Drinking Water	BDS 1958:2019	1. Appearance Test	The body of the container shall be free from any visual defects like cavities, crevices, flaws, stains, etc
			2. Brimful Capacity in mm	Max ^m 1.5 percent of nominal capacity
			3. Wall Thickness in mm	± 2 percent of the declared value
			4. Environmental Stress-Crack Resistance	shall show no evidence of stress cracking or leakage
			5. Transparency in percent	Min ^m 85
			6. Leakage Test	shall pass the test
			7. Drop Test	shall pass the test
17.	Conduits Systems for Cable management	BDS EN 61386-21:2010	1. External Thread Length in mm	as per declaration
			2. Internal Thread Length in mm	as per declaration
			3. Entry Length of Internal Thread in mm	as per declaration
			4. External Entry Diameter in mm	as per declaration
18.	Adhesive Insulation Tapes	BDS 1019	1. Length in mm	as per declaration
			2. Width in mm	as per declaration
			3. Thickness in mm	as per declaration
			4. Breaking Strength	as per declaration
			5. Adhesion test	as per declaration
19.	Rubber Flat Transmission belting of textile construction for general use	BDS 1199: 2005	1. Length in mm	As per Declaration
			2. Width in mm	As per Declaration
			3. Thickness in mm	As per Declaration
			4. Freedom from defects	Shall be straight and well finished
			5. Full thickness tensile strength (Longitudinal direction) in kN/m width	As per Declaration
			6. Full thickness tensile strength (Transverse direction) in kN/m width	As per Declaration
			7. Elongation of full thickness in longitudinal direction in percent	Max ^m 20
			8. Adhesion test in Longitudinal direction in kN/m	Min ^m 3.0
			9. Seam Strip	Shall not show any sign of cracking or loosening in the seam

20.	Rubber Conveyor and Elevator Belt of ply construction for general use	BDS 1200:2005	1. Width in mm	As per Declaration
			2. Difference between two measurements of full thickness in mm	As per Declaration
			3. Freedom from defects	Shall be straight and well finished
			4. Thickness of rubber cover (For carrying side)	As per Declaration
			5. in mm	
			6. Thickness of rubber cover ((For pulley side) in mm	As per Declaration
			7. Full thickness tensile strength (Longitudinal direction) in kgf/cm-width	As per Declaration
			8. Full thickness tensile strength (Transverse direction) in kgf/cm-width	As per Declaration
			9. Elongation of full thickness in longitudinal direction {At reference load (10% of the specified tensile strength)} in percent	Max ^m 4
			10. Elongation of full thickness in longitudinal direction (At breaking load) in percent	Min ^m 10
			11. Adhesion test (Ply to ply) in kgf/cm-width	Min ^m 3.2
			12. Adhesion test (Cover to ply) in kgf/cm-width	As per Declaration
			13. Tensile strength of Rubber cover (before ageing) in kgf/cm ²	As per Declaration
			14. Elongation at break of Rubber cover (before ageing) in percent	As per Declaration
			15. Change in Tensile strength of Rubber cover (after ageing) in percent	Not vary more than ± 25
			16. Change in Elongation at break of Rubber cover (after ageing) in percent	Not vary more than ± 25

Physical Testing Wing

Civil, Physical & Mechanical Division

Group: Wood Products (2)



Tensile properties test of plywood



Moisture content test of plywood

Group: Wood Products (2)

Sl. No.	Product Name	BDS No.	Test Parameters	Standard Limit
21.	Plywood Tea Chest	BDS 18:2006	1. Dimension in mm	as per declaration
			1. Thickness in mm	as per declaration
			2. Moisture Content in percent	as per declaration
22.	Plywood for General Purposes	BDS 799: 2006	1. Avg. Length in mm	As per Declaration
			2. Avg. Width in mm	As per Declaration
			3. Avg. Thickness in mm	As per Declaration
			4. Moisture content in percent	Min ^m 5.0, Max ^m 15.0
			5. Average Glue shear strength in dry state in N	As per Declaration
			6. Individual Glue shear strength in dry state in N	As per Declaration
			7. Average Water Resistance test in N	As per Declaration
			8. Individual Water Resistance test in N	As per Declaration

Physical Testing Wing

Civil, Physical & Mechanical Division

Group: Building & Construction Materials Products (13)



Cement Testing Machine



Bricks & Blocks testing Machine



MS Rod Testing Machine by Universal Testing Machine (UTM-2000KN)

Group: Building & Construction Materials (13)

Sl. No.	Product Name	BDS No.	Test Parameters	Standard Limit
23.	Common Building Clay Bricks	BDS 208:2022	1. Appearance test	Shall be free from cracks, chips warp, twists, pebbles, nodules of line.
			2. Recess or Panel Frog	Shall have a recess or panel frog
			3. Avg. Length in mm	240 ± 7
			4. Avg. Width in mm	115 ± 5
			5. Avg. Height/Depth in mm	70 ± 2
			6. Compressive strength in MPa (PSI)	As per Declaration
			7. Water absorption in percent	As per Declaration
24.	Hollow clay bricks & blocks	BDS 1803: 2008	1. Dimensions of Brick in mm: a) Length b) Width c) Height	As per Declaration As per Declaration As per Declaration
			2. Ratio between gross cross sectional area and net cross sectional area	Min ^m 0.6
			3. Warpage in mm	As per Declaration
			4. Visual inspection	Free from cracks, chips and other defects
			5. Av. Compressive strength in MPa	Min ^m 14 (For Grade B) Min ^m 17.5 (For Grade A) Min ^m 21 (For Grade S)
			6. Av. water absorption (by 5 hour boiling) in percent	Max ^m 25.0 (For Grade B) Max ^m 22.0 (For Grade A) Max ^m 17.0 (For Grade S)
			7. Saturation Coefficient	Max ^m 0.92 (For Grade B) Max ^m 0.88 (For Grade A) Max ^m 0.78 (For Grade S)
			8. Efflorescence test	No Efflorescence/Slightly Effloresced/ Effloresced
			9. (Tendency to efflorescence)	
25.	Concrete Paving Blocks	BDS EN 1338:2009	1. Appearance test	No block shall show cracking, flaking or delamination
			2. Thickness of Facing Layer in mm	Min ^m 4.0
			3. Length in mm	Declared value ± 2
			4. Width in mm	Declared value ± 2
			5. Thickness in mm	Declared value ± 3
			6. Tensile splitting strength in Mpa	Min ^m 3.6
			7. Failure load in N/mm	Min ^m 250
			8. Abrasion resistance (lengths of the grooves in mm)	≤ 23
			9. Water absorption in percent	As per Declaration
			10. Mass loss after freeze/thaw test in kg/m ²	As per Declaration

Sl. No.	Product Name	BDS No.	Test Parameters	Standard Limit
26.	Aggregate Concrete Masonry Units	BDS EN 771-3:2003	1. Dimension in mm	as per declaration
			2. Flatness of bed faces	as per declaration
			3. Plane parallelism of bed faces	as per declaration
			4. Gross dry density of the concrete in kg/m ³	as per declaration
			5. Net dry density of the concrete in kg/m ³	as per declaration
			6. Compressive strength in N/mm ²	as per declaration
			7. Bending Tensile Strength	as per declaration
			8. Freeze/Thaw Resistance	as per declaration
			9. Water absorption by capillarity in g/m ² s	as per declaration
			10. Moisture movement	as per declaration
			11. Water vapour permeability	as per declaration
			12. Reaction to fire	as per declaration
			13. Shear bond strength	as per declaration
			14. Flexural bond strength	as per declaration
27.	Mild steel (MS) pipe & Galvanized Iron (GI) pipe	BDS 1031: 2006	1. Outside diameter in mm	As per Declaration
			2. Thickness in mm	As per Declaration
			3. Mass per meter run in kg	As per Declaration
			4. Bend test at 90 degrees	Fracture or failure not to be occurred
			5. Flattening test	Fracture, Cracks or Breaks not to be occurred
			6. Hydraulic test at 50 kgf./cm ²	shall withstand the test pressure without showing defects of any kind
			7. Tensile strength in kgf/mm ²	Min ^m 32
			8. Elongation in percent	Min ^m 20
28.	Galvanized Sheet & Coil	BDS 1122 : 2021	1. Appearance test	Sheets and coils shall be free of bare spots, holes, tears, etc
			2. Length in mm	As per Declaration
			3. Width in mm	As per Declaration
			4. Pitch of corrugation in mm	76.2 ± 2
			5. Depth of corrugation in mm	18 ± 1.5
			6. Weight of single sheet in kg	5.657 ± 10%
			7. Unit weight in kg/m ²	3.384 ± 10%
			8. Bend Test	Neither flaking of coating, nor cracks or fracture of the base metal shall be permitted
			9. Yield strength in N/mm ²	Min ^m 245
			10. Tensile strength in N/mm ²	Min ^m 402
			11. Elongation in percent	Min ^m 18

Sl. No.	Product Name	BDS No.	Test Parameters	Standard Limit
29.	Continuous Hot-dip Aluminium/ Zink Coated Steel Sheet	BDS ISO 9364:2021	1. Tensile strength in MPa	as per declaration
			2. Yield strength in N/mm	as per declaration
			3. Elongation in percent	as per declaration
			4. Bend test	as per declaration
			5. Coating adherence test	as per declaration
30.	Steel for the Reinforcement of Concrete	BDS ISO 6935:2021	1. Mass per length in kg/m	As per Declaration
			2. Upper Yield strength (ReH) in MPa	As per Declaration
			3. Characteristics Value of Rm/ ReH	As per Declaration
			4. Elongation after fracture (A) in percent	As per Declaration
			5. Bend test	Shall show neither rupture nor cracks visible
			6. Re-bend test	Shall show neither rupture nor cracks visible
31.	Structural Steel and Angle	BDS ISO 630-1,2,3:2013	1. Tensile strength in MPa	as per declaration
			2. Yield strength in MPa	as per declaration
			3. Elongation in percent	as per declaration
			4. Impact test	as per declaration
32.	Extruded Profiles of Aluminium and Aluminium Alloys	BDS EN 755-9:2010	1. Dimensions between points on the cross section of the profile or the centre of open screw holes (H) in mm	As per Declaration
			2. Length of the shorter leg of profiles with open ends (E) in mm	As per Declaration
			3. Wall thickness (A) in mm	As per Declaration
			4. Tensile Strength (R_m) in MPa	As per Declaration
			5. Elongation in percent (A)	As per Declaration
33.	Cement	BDS EN 197:2010	1. Compressive strength of (1:3) Mortar for early strength at 2 days cubes in MPa	As per Declaration
			2. Compressive strength of (1:3) Mortar cubes for standard strength at 28 days in MPa	As per Declaration
			3. Initial setting time in minute	As per Declaration
			4. Soundness (Expansion) in mm	Max ^m 10.0
34.	Cement Paint	BDS 1706:2015	1. VICAT Setting time in minutes	25-375
35.	Bitumen & Bituminous Binders- Polymer Modified Bitumen	BDS EN 14023:2009	1. Elastic recovery at 25 ^o C in percent	As per Declaration
			2. Elastic recovery at 10 ^o C in percent	As per Declaration
			3. Force Ductility in J/cm ²	As per Declaration

Physical Testing Wing

Civil, Physical & Mechanical Division
Group: Mechanical & Safety Products (7)



Sock absorption test of Helmet



Vicker hardness test of blade

Group: Mechanical & Safety Products (7)

Sl. No.	Product Name	BDS No.	Test Parameters	Standard Limit
36.	Safety Razor Blade	BDS 219 : 2022	1. Thickness in mm	As per Declaration
			2. Length of cutting edge in mm	36.70 - 37.16
			3. Width in mm	21.85 - 22.08
			4. Length of central slot in mm	Min ^m 35.70
			5. Width of central slot in mm	2.06 - 2.21
			6. Parallelism of cutting edges in mm	Max ^m 0.08
			7. Symmetry about the longitudinal axis in mm	Max ^m 0.22
			8. Final bevel angle in degree	11 - 25
			9. Hardness in HV	As per Declaration
			10. Smoothness of shave	Shall give a smooth shave on the first three application
			11. Flexibility test	Shall not crack or break
37.	Disposable Razor Blade- Single and twin Blade type	BDS 1838: 2022	1. Appearance test	Shall be in a clean, new condition and free from dirt and dust
			2. Hardness value in HV	As per Declaration
			3. Straightness of cutting edge in mm	Max ^m 0.04
			4. Final bevel angle in degree	11 to 25
38.	Portable Fire Extinguishers	BDS ISO 7165:2022	1. Actual charge of an extinguisher in kg	As per Declaration
			2. Effective discharge time in second	As per Declaration
			3. Bulk range of extinguisher in meter	As per Declaration
			4. Retain Charge of extinguisher in percent	Max ^m 15
			5. Extinguishment	All flames shall be extinguished
			6. Hose length in mm	Min ^m 400.0
			7. Resistance to impact	As per Declaration
			8. Resistance to vibrations	As per Declaration
			9. Resistance to corrosion	As per Declaration
			10. Tapping test	As per Declaration
39.	Fire Resistance Tests-Door and shutter Assemblies	BDS ISO 3008-1:2023	1. Gap Measurement	as per declaration
			2. Retention Force Measurement	as per declaration
			3. Final Setting	as per declaration
40.	Protective Helmet for two wheeler (Motorcycle, Scooter & Vehicle) Riders	BDS 1136: 2022	1. Mass of helmet in gm	Max ^m 1500
			2. Workmanship and finish	as per declaration
			3. Basic Construction of the helmet	as per declaration
			4. Shell	as per declaration

Sl. No.	Product Name	BDS No.	Test Parameters	Standard Limit
			5. Protective Padding	as per declaration
			6. Retention System	as per declaration
			7. Dynamic Test of Retention System a) Dynamic Displacement in mm b) Residual Displacement in mm	Max ^m 35 Max ^m 25
			8. Chin Strap	
			a) Construction	as per declaration
			b) Wide of chinstrap in mm	Min ^m 20
			c) Extension of rigid part in mm	Max ^m 130
			d) Micro-slip Test in mm	The total slippage through the grips shall not exceed 10 mm
			e) Resistance to abrasion	Shall withstand without breaking
			f) Chin-cup	Chinstrap shall not include a chin-cup
			9. Sliding bar/Double-D ring fastening devices	
			a) Construction	as per declaration
			b) Color	Shall be red
			c) Dimensions in mm	Min ^m 10 × 20
			10. Visor	
			a) Visor screen	as per declaration
			b) Visor edges	as per declaration
			c) Mass of visor in gm	Max ^m 350
			d) Light Transmission in percent	Min ^m 80
			11. Test of quick release mechanism	
			a) Inadvertent release	Shall not release
			b) Ease of release	Shall be capable of being operated
			c) Durability of quick release mechanism	Shall not fracture nor disengage
			12. Retention (Detaching) of helmet in degree	Max ^m 30
			13. Peripheral vision in degree	
			a) Horizontally	Min ^m 105
			b) Upwards	Min ^m 7
			c) Downwards	Min ^m 45
			14. Impact absorption In solvent condition	
			a) Acceleration measured in g	Max ^m 275
			b) Head Injury Criterion in HIC	Max ^m 2400
			c) Detachment from the headform	Shall not become detached
			15. Impact absorption In ambient temperature and Hygrometry condition	
			a) Acceleration measured in g	Max ^m 275
			b) Head Injury Criterion in HIC	Max ^m 2400
			c) Detachment from the headform	Shall not become detached

Sl. No.	Product Name	BDS No.	Test Parameters	Standard Limit
			16. Impact absorption In heat condition a) Acceleration measured in g b) Head Injury Criterion in HIC c) Detachment from the headform	Max ^m 275 Max ^m 2400 Shall not become detached
			17. Impact absorption In low temperature condition a) Acceleration measured in g b) Head Injury Criterion in HIC c) Detachment from the headform	Max ^m 275 Max ^m 2400 Shall not become detached
			18. Impact absorption In ultraviolet-Radiation and moisture condition a) Acceleration measured in g b) Head Injury Criterion in HIC c) Detachment from the headform	Max ^m 275 Max ^m 2400 Shall not become detached
			19. Penetration Resistance	The point of striker shall not contact the surface of the headform
			20. Rigidity Test In Longitudinal Direction a) The maximum deformation in mm b) The residual permanent deformation in mm	Max ^m 40 Max ^m 15
			21. Rigidity Test In Transverse Direction a) The maximum deformation in mm b) The residual permanent deformation in mm	Max ^m 40 Max ^m 15
			22. Test for projection and surface friction a) Shear assessment	shall not prevent the assessment bar from sliding past the projection
			b) Friction assessment	The abrasive carriage shall not be brought to rest by the helmet
			23. Audibility in dB	Max ^m 10
			24. Corrosion resistance of Metal parts	Shall show no sign of corrosion
41.	Industrial Safety Helmet	BDS 1265: 1990	1. Headband	Shall be sweat resistant, non-irritant and should not cause skin disease
			2. Cradle	Shall be webbing or similar materials
			3. Metal parts	No sign of corrosion
			4. Size	As per declaration
			5. Weight in gm	Max ^m 400
			6. Shock absorption in kgf	Max ^m 500
			7. Resistance to Penetration in mm	Max ^m 10
			8. Flammability resistance	Shall not burn
			9. Electrical Properties	Shall not show a leakage current
			10. Water Absorption in percent	Max ^m 5
			11. Heat Resistance	Shall not separate, distort or soften

Sl. No.	Product Name	BDS No.	Test Parameters	Standard Limit
42.	Safety Matches in Boxes	BDS 1040: 2006	1. Appearance test	Shall have a neat appearance
			2. Sticks	Shall be made of wood
			3. Boxes	Shall be made of wood, bamboo, cardboard or paperboard
			4. Av. no. of sticks per box out of 6 boxes	$25 \pm 4\%$
			5. Match head	No match-head shall protrude out the box
			6. No. of box containing less than 95% of nominal sticks out of 6 boxes	No box out of these six boxes shall contain less than 95% of the nominal specified number of sticks.
			7. Defective boxes : i) Broken & crushed ii) Loosely fitted	Max ^m 5 Max ^m 1
			8. Unserviceable sticks in percent out of 6 boxes-	Max ^m 5
			9. Ignition below 170°C	No stick catches fire
			10. Ignition under impact	No stick catches fire
			11. Burning quality spurting in percent by both friction surface side	Max ^m 5
			12. Wearing strength of one friction surface side	To Pass test
			13. Damp-proof ness in percent for 24 hours	Min. 60

Physical Testing Wing

Civil, Physical & Mechanical Division
Group: Gas Cylinder Products (6)



Pressure resistance test of gas cylinder



Pressure resistance test of gas cylinder



Pressure resistance test of gas cylinder



Pressure resistance test of gas cylinder

Group: Gas Cylinder Products (6)

Sl. No.	Product Name	BDS No.	Test Parameters	Standard Limit
43.	Gas cylinders — Refillable Welded Steel Cylinders - Test pressure 60 bar and below	BDS ISO 4706:2008	1. Wall Thickness (Shell) in mm	As per Declaration
			2. Wall Thickness (End) in mm	As per Declaration
			3. Out of roundness in mm	As per Declaration
			4. Straightness (Deviation) in mm	As per Declaration
			5. Verticality (Deviation) in mm	As per Declaration
			6. Elongation of parent metal after fracture (A80 mm) in percent	As per Declaration
			7. Bend test	Cracks shall not appear in the test specimen
			8. Hydrostatic pressure test at 30 bar	No leak in the cylinder or welds can be observed and shall show no signs of permanent deformation.
			9. Burst Test	As per Declaration
			10. Volumetric Expansion	As per Declaration
			11. Radiography & macro examination	cracks, inadequate welds or lack of penetration or lack of fusion of the weld
	Gas Cylinders- Refillable Seamless Steel Gas Cylinders	BDS ISO 9809-1,2,3:2008	1.Wall Thickness of Shell in mm	As per Declaration
			2.Wall Thickness of End in mm	As per Declaration
			3. Out of roundness in mm	As per Declaration
			4.Straightness (Deviation) in mm	As per Declaration
			5.Verticality (Deviation) in mm	As per Declaration
			6.Yield strength of parent metal (R_{eH}) in MPa	As per Declaration
			7.Tensile strength of parent metal (R_m) in MPa	As per Declaration
			8.Tensile strength of welds (R_m) in MPa	Cracks shall not appear in the test specimen
			9.Elongation of parent metal after fracture ($A_{80\text{ mm}}$) in percent	As per Declaration
			10. Bend test	As per Declaration
			11.Hydrostatic pressure test at 30 bar	No leak in the cylinder or welds can be observed and shall show no signs of permanent deformation.
			12.Burst Test	As per Declaration
			13.Radiography & macro examination	cracks, inadequate welds or lack of penetration or lack of fusion of the weld
	Gas Cylinders- Refillable Seamless Aluminium Alloy Gas Cylinders	BDS ISO 7866:2008	1.Wall Thickness of Shell in mm	As per Declaration
			2.Wall Thickness of End in mm	As per Declaration
			3. Out of roundness in mm	As per Declaration
			4.Straightness (Deviation) in mm	As per Declaration

Sl. No.	Product Name	BDS No.	Test Parameters	Standard Limit
			5. Verticality (Deviation) in mm	As per Declaration
			6. Yield strength of parent metal (R_{eH}) in MPa	As per Declaration
			7. Tensile strength of parent metal (R_m) in MPa	As per Declaration
			8. Tensile strength of welds (R_m) in MPa	Cracks shall not appear in the test specimen
			9. Elongation of parent metal after fracture (A_{80mm}) in percent	As per Declaration
			10. Bend test	As per Declaration
			11. Hydrostatic pressure test at 30 bar	No leak in the cylinder or welds can be Observed and shall show no signs of permanent deformation.
			12. Burst Test	As per Declaration
			13. Radiography & macro examination	cracks, inadequate welds or lack of penetration or lack of fusion of the weld
44.	Gas Cylinders- Transportable Refillable welded Steel Cylinders for LPG	BDS ISO 22991:2023	1. Wall Thickness of Shell in mm	As per Declaration
			2. Wall Thickness of End in mm	As per Declaration
			3. Out of roundness in mm	As per Declaration
			4. Straightness (Deviation) in mm	As per Declaration
			5. Verticality (Deviation) in mm	As per Declaration
			6. Yield strength of parent metal (R_{eH}) in MPa	As per Declaration
			7. Tensile strength of parent metal (R_m) in MPa	As per Declaration
			8. Tensile strength of welds (R_m) in MPa	Cracks shall not appear in the test specimen
			9. Elongation of parent metal after fracture (A_{80mm}) in percent	As per Declaration
			10. Bend test	As per Declaration
			11. Hydrostatic pressure test at 30 bar	No leak in the cylinder or welds can be Observed and shall show no signs of permanent deformation.
			12. Burst Test	As per Declaration
			13. Radiography & macro examination	cracks, inadequate welds or lack of penetration or lack of fusion of the weld

Sl. No.	Product Name	BDS No.	Test Parameters	Standard Limit
45.	LPG Composite Cylinder	BDS ISO 11119-3:2018	1. Dimensions in mm	as per declaration
			2. Thickness in mm	as per declaration
			3. Out of roundness in mm	as per declaration
			4. Straightness (Deviation) in mm	as per declaration
			5. Proof Pressure Test	as per declaration
			6. Hydraulic Elastic Expansion Test	as per declaration
			7. Burst Test	as per declaration
			8. Ambient Cycle test	as per declaration
			9. Environmental Cycle test	as per declaration
			10. Vacuum Test	as per declaration
			11. Stress Rupture Test	as per declaration
			12. Flaw test	as per declaration
			13. Drop Test	as per declaration
			14. Impact Test	as per declaration
			15. Fire Resistance Test	as per declaration
			16. Permeability Test	as per declaration
			17. Torque test	as per declaration
			18. Salt water Immersion test	as per declaration
			19. Pneumatic Cycle Test	as per declaration
			20. Leak Test	as per declaration
			21. Water Boil test	as per declaration
			22. Liner Burst test	as per declaration
			23. Resin Shear strength	as per declaration
46.	Gas Mantles	BDS 1197:1988 (Reaffirmed 2006)	1. Dimension of Mantle	as per declaration
			2. Life in hour	Min ^m 50
			3. Average Life in hour	Min ^m 60
			4. Luminous Intensity	Shall not decrease by more than 5 percent
			5. Lighting Efficiency	as per declaration
			6. Shock Test	Failed to withstand 300 shocks



Physical Testing Wing

Civil, Physical & Mechanical Division

Group: Tyre-Rim Products (7)

Group: Tyre-Rim Products (7)

Sl. No.	Product Name	BDS No.	Test Parameters	Standard Limit
47.	Bicycle Rim	BDS 986:2006	1. Circumference at bead seat	as per declaration
			2. Steel streap thickness in mm	as per declaration
			3. Tensile strength in MPa	Min ^m 310
			4. Yield strength in MPa	Min ^m 185
			5. Elongation in percent	Min ^m 25
48.	Truck and Bus Tyre and rims (metric series), Part-1- Tyre	BDS ISO 4209-1:2012	1. Dimension	as per declaration
			2. Tensile strength of tread rubber	as per declaration
			3. Elongation	as per declaration
			4. Aging test of tread rubber	as per declaration
			5. Bend Test of tread rubber	as per declaration
			6. Bend Test of tread of bead wire	as per declaration
			7. Tension test	as per declaration
			8. Tensile strength of bead wire	as per declaration
			9. Tensile strength of joint	as per declaration
			10. Adhesion test	as per declaration
			11. Plunger test	as per declaration
	Truck and Bus Tyre and rims (metric series) Part-2- rims	BDS ISO 4209-2:2012	1. Dimension	as per declaration
			2. Tensile strength	as per declaration
			3. Bend Test of spoke	as per declaration
			4. Bend Test of rims	as per declaration
			5. Flattening test of metallic tube	as per declaration
			6. Compression strength	as per declaration
			7. Paint peeling test	as per declaration
			8. Hardness test	as per declaration
			9. Load test	as per declaration
			10. Preparation of sample	as per declaration
49.	Passenger cars Tyre and rims (metric series) Part-1- Tyre	BDS ISO 4000-1:2012	1. Dimension	as per declaration
			2. Tensile strength of tread rubber	as per declaration
			3. Elongation	as per declaration
			4. Aging test of tread rubber	as per declaration
			5. Bend Test of tread rubber	as per declaration
			6. Bend Test of tread of bead wire	as per declaration
			7. Tension test	as per declaration
			8. Tensile strength of bead wire	as per declaration
			9. Tensile strength of joint	as per declaration
			10. Adhesion test	as per declaration
			11. Plunger test	as per declaration
	Passenger cars Tyre and rims (metric series) Part-2- rims	BDS ISO 4000-2:2012	1. Dimension	as per declaration
			2. Tensile strength	as per declaration
			3. Bend Test of spoke	as per declaration
			4. Bend Test of rims	as per declaration
			5. Flattening test of metallic tube	as per declaration
			6. Compression strength	as per declaration
			7. Paint peeling test	as per declaration
			8. Hardness test	as per declaration
			9. Load test	as per declaration
			10. Preparation of sample	as per declaration

Sl. No.	Product Name	BDS No.	Test Parameters	Standard Limit
50.	Motorcycle Tyre and rims (metric series) - Part-2-tyres Dimensions & load-Carrying capacities	BDS ISO 5751-2:2012	1. Dimension	as per declaration
			2. Tensile strength of tread rubber	as per declaration
			3. Elongation	as per declaration
			4. Bend Test of tread rubber	as per declaration
			5. Bend Test of tread of bead wire	as per declaration
			6. Tension test	as per declaration
			7. Tensile strength of bead wire	as per declaration
			8. Tensile strength of joint	as per declaration
			9. Plunger test	as per declaration
	Motorcycle Tyre and rims (metric series) - Part-3-Range of approved rim contours	BDS ISO 5751-3:2012	Range of approved rim contour	as per declaration

Physical Testing Wing

Civil, Physical & Mechanical Division
Group: Household Products (3)



Volume test of Pressure cooker



Pressure test of Pressure cooker

Group : Household Products (3)

Sl. No.	Product Name	BDS No.	Test Parameters	Standard Limit
51.	Domestic Pressure Cookers	BDS 1752: 2006	1. Capacities in liter	2-22
			2. Hardness (Before Aging) in IRDH	65-75
			3. Tensile Strength (Before Aging) in MN/m ²	Min ^m 10
			4. Elongation at Break (Before Aging) in Percent	Min ^m 200
			5. Hardness (After Aging in an Oven) in IRDH	+8, -2
			6. Tensile Strength (After Aging in an Oven) in MN/m ²	+10, -20
			7. Elongation at Break (After Aging in an Oven) in Percent	+10, -35
			8. Hardness (After Aging in an Autoclave) in IRDH	+5, -0
			9. Tensile Strength (After Aging in an Autoclave) in percent	±10
			10. Elongation at Break (After Aging in an Autoclave) in Percent	+10, -25
			11. Volume in Percent	+5, -0
			12. Compression set in percent	Max ^m 25
			13. Air Pressure test	Shall not show any leakage or deformation
			14. Proof Pressure test	Shall not show any sign of leakage or other forms of failure
			15. Proof Pressure test	Shall not show any sign of leakage or other forms of failure
			16. Bursting Pressure test	Satisfactory
52.	Clean Cook stoves and clean cooking Solutions	BDS ISO 19867-1:2019	1. Emissions and performance	as per declaration
			2. Safety measurements	as per declaration
			3. Durability measurements	as per declaration
53.	Vaccum Flask	BDS 576:1966	1. Workmanship and finsh	as per declaration
			2. Leak proofness test	as per declaration
			3. Corrosion Test	as per declaration

Physical Testing Wing

Civil, Physical & Mechanical Division
Group: Sanitary Products (3)



Dimension test of Sanitary ware



Pressure test of Sanitary tapware

Group: Sanitary Products (3)

Sl. No.	Product Name	BDS No.	Test Parameters	Standard Limit
54.	Sanitary Ware Appliances	BDS 1162: 2014	1. Length in mm	As per Declaration
			2. Width in mm	As per Declaration
			3. Height in mm	As per Declaration
			4. Thickness of Body in mm	Min ^m 5.0
			5. Quality of glazing	The glaze shall be thoroughly fused to the body.
			6. Visual Examination	Shall not show blemishes or defects.
			7. Crazing	none of the test pieces shall show crazing
			8. Water absorption in percent	Max ^m 0.50
55.	Sanitary Tapware – Single taps and Combination taps for water supply systems of type 1 and type 2	BDS EN 200:2020	1. Inlet Dimensions in mm	As per Declaration
			2. Outlet Dimensions in mm	As per Declaration
			3. Mounting Dimensions in mm	As per Declaration
			4. Leak tightness Test	Shall be no leakage or seepage through wall
			5. Pressure Resistance Test	Shall be no permanent deformation in any part
			6. Torsion Test	Shall be no deformation or other deterioration which impairs the function of the tap
			7. Flow rate	As per Declaration
			8. Endurance	As per Declaration
56.	Sanitary Tapware-Shower Outlets	BDS EN 1112	1. Inlet Dimensions in mm	as per declaration
			2. Outlet Dimensions in mm	as per declaration
			3. Leak tightness Test	Shall be no leakage or seepage through wall.
			4. Pressure Resistance Test	Shall be no permanent deformation in any part.

Physical Testing Wing

Civil, Physical & Mechanical Division

Group: Glass, Ceramic & Melamine Products (6)



Flexural Strength and modulus of rupture test of ceramic tiles



Impact test of Tableware

Group: Glass, Ceramic & Melamine Products (6)

Sl. No.	Product Name	BDS No.	Test Parameters	Standard Limit
57.	Ceramic Tiles	BDS ISO 13006:2021	1. Length in mm	As per Declaration
			2. Width in mm	As per Declaration
			3. Avg. Thickness in mm	As per Declaration
			4. Surface quality	Shall be free from visible defects that would impair the appearance of a major area of tiles.
			5. Water absorption in percent	As per Declaration
			6. Breaking strength in N	As per Declaration
			7. Modulus of rupture in N/mm ²	As per Declaration
58.	Ceramic Tableware	BDS 485:2006	1. Visual inspection	Shall be covered by glaze properly matured and fused with the body of uniform color; and entire surface shall be free from defects namely craze, crawling, patches and finger prints.
			2. Resting Condition of cup	Shall rest in the middle of the saucer without rocking or spinning.
			3. Handle	Shall not be misplaced
			4. Lip or Spout	Liquids shall not trickle down the sides of ware.
			5. Lid	Shall fit properly and shall not fall down while pouring out liquid.
			6. Out of roundness in mm	As per Declaration
			7. Water absorption in percent	As per Declaration
			8. Edge warpage for flatware	A feeler gauge of 2 mm shall not be inserted
			9. Thermal shock	Shall be no cracking or glaze crazing
59.	Tableware made of Melamine Moulding Compound	BDS 1425: 2009	1. Appearance test	Shall be free from any visible defects such as spots, bubbles, holes, cracks, impurities and surface scratches
			2. Fluid capacity in ml	As per Declaration
			3. Face dia (overall) in mm	As per Declaration
			4. Thickness (Min) in mm	As per Declaration
			5. Rim radius in mm	Min ^m 0.8
			6. Mean handle thickness in mm	As per Declaration
			7. Ovalling	As per Declaration
			8. Migration of constituents test.	Shall not give any smell or impart any colour when subjected to free boiling in water for 10 minutes.
			9. Resistance to wet heat test	Shall not develop cracks nor shall they show signs of surface marking or of any other defect.
			10. Resistance to dry heat test	Shall not develop cracks nor shall they show signs of surface marking or of any other defect.
			11. Warping Test	A feeler gauge of 0.375 mm shall not be inserted

Sl. No.	Product Name	BDS No.	Test Parameters	Standard Limit
60.	Tableware made of Urea Moulding Compound	BDS 1825:2011	1. Appearance test	The finished product shall be clean, well made and free from any defects likely to impair its appearance or serviceability. It shall be also free from pits, orange pocks, cracks and bubbles.
			2. Fluid capacity in ml	As per Declaration
			3. Face dia (overall) in mm	As per Declaration
			4. Thickness	As per Declaration
			5. Rim radius in mm	Min ^m 0.8
			6. Handle thickness in mm	As per Declaration
			7. Owalling	As per Declaration
			8. Resistance to boiling water	As per Declaration
			9. Resistance to dry heat	As per Declaration
			10. Resistance to low temperature	As per Declaration
			11. Warping Test	0.4 mm feeler gauge cannot be inserted
61.	Glass Tableware	BDS 1874:2013	1. Workmanship	Shall be well-formed and when placed on a horizontal plane shall rest evenly and shall not rock.
			2. Rim	shall be uniformly smooth and evenly finished
			3. Capacity in ml	185 ± 5%
			4. Wall Thickness throughout the circumference in mm	3.7 ± 20%
			5. Thermal shock test	Shall not crack or break.
62.	Float Glass	BDS 1832:2010	1. Length in mm	As per Declaration
			2. Width in mm	As per Declaration
			3. Thickness in mm	As per Declaration
			4. Diagonal in mm	Not exceed the calculated length by 0.2%
			5. Curvature in mm	Not exceed 0.2% per meter length
			6. Visible light transmittance in percent	Min ^m 88
			7. Inspection of defects	Satisfactory
			8. Optical distortion (angle of arrival in degree)	50
			9. Section Defect	Chip, roughness and broken corner shall be not thicker than glass thickness

Physical Testing Wing

Electrical & Electronics Division



Energy Meter Test



LED Light Test



Refrigerator & Freezer Test



Miniature Circuit Breaker Test

Mandatory Products and their parameters of physical testing wing

Division: Electrical & Electronics

Sl. No.	Product Name	Standards	Test Parameters	Standard Limit
1.	Bare Aluminium & All Aluminium alloy conductor for overhead power transmission	BDS 1036: 2006	i) Single wire dia in mm	As per Declaration
			ii) No of wire in the core	As per Declaration
			iii) Nominal cross sectional area of the conductor in mm ²	As per Declaration
			iv) Approximate overall dia in mm	As per Declaration
			v) Direction of Lay	Right/Left
			vi) Lay ratio	As per Declaration
			vii) Calculated Breaking Load of Aluminium in kN	As per Declaration
			viii) Ultimate Tensile Stress in Mpa	As per Declaration
			ix) Conductor resistance at 20°C in ohm/Km	As per Declaration
			x) Approximate mass in kg/kM	As per Declaration
			xi) Wrapping test	As per Declaration
			xii) Radial thickness of insulation in mm	As per Declaration
2.	Aluminium Conductors for overhead power transmission Aluminium Conductors steel reinforced for overhead power transmission.	BDS 1037: 2003	i) No of wire in the core	As per Declaration
			ii) a) Total cross sectional area of the conductor in mm ²	As per Declaration
			iii) b) Cross sectional area of Aluminium in mm ²	As per Declaration
			iv) Approximate overall dia in mm	As per Declaration
			v) Direction of Lay	Right/Left
			vi) Lay ratio	As per Declaration
			vii) Calculated Breaking Load in kg	As per Declaration
			viii) Ultimate Tensile Stress in kg/ mm ²	As per Declaration
			a) Aluminium	As per Declaration
			b) Steel	As per Declaration
			ix) Calculated DC Resistance at 20°C in ohm/KM	As per Declaration
			x) Approximate mass in kg/kM	As per Declaration
xi) Wrapping test	As per Declaration			

Sl. No.	Product Name	Standards	Test Parameters	Standard Limit
3 (A).	PVC Insulated Cable a) Single core	BDS 900: 2010	i) Annealing test of copper wire on 200mm G.L (Elongation in percent)	Min: 18.0
			ii) Conductor resistance at 20°C in Ohm/kM	As per Declaration
			iii) Radial thickness of insulation in mm	As per Declaration
			iv) Tensile Strength at break of insulation in N/ mm ²	Min: 12.50
			v) Elongation at break of insulation in percent.	Min: 125.0
			vi) Insulation resistance constant, K in MΩ -kM	Min: 0.037
			vii) High voltage test at 3kV (a.c) for 5 Minute.	Shall Withstand
			viii) Flammability test	Min: 50mm
			ix) Overall Dimension in mm	As per Declaration
3 (B).	PVC Insulated Cable b) Twin core	BDS 900: 2010	i) Annealing test of copper wire on 200mm G.L (Elongation in percent)	Min: 18.0
			ii) Conductor resistance at 20°C in Ohm/kM	As per Declaration
			iii) Radial thickness of insulation in mm	As per Declaration
			iv) Tensile Strength at break of insulation in N/ mm ²	Min: 12.50
			v) Elongation at break of insulation in percent.	Min: 125.0
			vi) Insulation resistance constant, K in MΩ -kM	Min: 0.037
			vii) High voltage test at 3kV (a.c) for 5 Minute.	Shall Withstand
			viii) Flammability test	Min: 50mm
			ix) Overall Dimension in mm	As per Declaration
3 (C).	PVC Insulated Cable c) Multi core	BDS 900: 2010	i) Annealing test of copper wire on 200mm G.L (Elongation in percent)	Min: 18.0
			ii) Conductor resistance at 20°C in Ohm/kM	As per Declaration
			iii) Radial thickness of insulation in mm	As per Declaration
			iv) Tensile Strength at break of insulation in N/ mm ²	Min: 12.50
			v) Elongation at break of insulation in percent.	Min: 125.0
			vi) Insulation resistance constant, K in MΩ -kM	Min: 0.037
			vii) High voltage test at 3kV (a.c) for 5 Minute.	Shall Withstand
			viii) Flammability test	Min: 50mm
			ix) Overall Dimension in mm	As per Declaration
4 (A).	PVC Insulated Flexible Cord a) Single core	BDS 899 (Part 1-6): 2000	i) Annealing test of copper wire on 200mm G.L (Elongation in percent)	As per Declaration
			ii) Conductor resistance at 20°C in Ohm/kM	As per Declaration
			iii) Radial thickness of insulation in mm	As per Declaration
			iv) Radial thickness of Sheath in mm	As per Declaration
			v) Tensile Strength at break of insulation in N/ mm ²	Min: 12.50
			vi) Elongation at break of insulation in percent.	Min: 125.0
			vii) Tensile Strength at break of Sheath in N/ mm ²	Min: 12.50
			viii) Elongation at break of Sheath in percent.	Min: 125.0
			ix) Insulation resistance constant, K in MΩ -kM	As per Declaration
			x) High voltage test at 2kV (a.c) for 5 Minute.	Shall withstand
			xi) Flammability test	Min: 50mm

Sl. No.	Product Name	Standards	Test Parameters	Standard Limit
4 (B).	PVC Insulated Flexible Cord b) Twin core	BDS 899 (Part 1-6): 2000	i) Annealing test of copper wire on 200mm G.L (Elongation in percent)	As per Declaration
			ii) Conductor resistance at 20°C in Ohm/kM	As per Declaration
			iii) Radial thickness of insulation in mm	As per Declaration
			iv) Radial thickness of Sheath in mm	As per Declaration
			v) Tensile Strength at break of insulation in N/ mm ²	Min: 12.50
			vi) Elongation at break of insulation in percent.	Min: 125.0
			vii) Tensile Strength at break of Sheath in N/ mm ²	Min: 12.50
			viii) Elongation at break of Sheath in percent.	Min: 125.0
			ix) Insulation resistance constant, K in MΩ -kM	As per Declaration
			x) High voltage test at 2kV (a.c) for 5 Minute.	Shall withstand
			xi) Flammability test	Min: 50mm
4 (C).	PVC Insulated Flexible Cord c) Multi core	BDS 899 (Part 1-6): 2000	i) Annealing test of copper wire on 200mm G.L (Elongation in percent)	As per Declaration
			ii) Conductor resistance at 20°C in Ohm/kM	As per Declaration
			iii) Radial thickness of insulation in mm	As per Declaration
			iv) Radial thickness of Sheath in mm	As per Declaration
			v) Tensile Strength at break of insulation in N/ mm ²	Min: 12.50
			vi) Elongation at break of insulation in percent.	Min: 125.0
			vii) Tensile Strength at break of Sheath in N/ mm ²	Min: 12.50
			viii) Elongation at break of Sheath in percent.	Min: 125.0
			ix) Insulation resistance constant, K in MΩ -kM	As per Declaration
			x) High voltage test at 2kV (a.c) for 5 Minute.	Shall withstand
			xi) Flammability test	Min: 50mm
5.	Cross linked polyethylene insulated PVC sheathed cables	BDS 1521 (Part 1-2):195	i) High voltage test	Shall Satisfactory
			ii) Conductor resistance	As per Declaration
			iii) Dimensions	As per Declaration
			iv) Tensile strength	As per Declaration
			v) Elongation	As per Declaration
			vi) Hot set test	As per Declaration
			vii) Conductor construction test	As per Declaration
			viii) Insulation resistance constant KI at 20°C	As per Declaration
			ix) Shrinkage test	As per Declaration
			x) Pressure test at high temperature	As per Declaration
			xi) Cold Blend test	As per Declaration
			xii) Cold Elongation test	As per Declaration
			xiii) Cold impact test	As per Declaration
			xiv) Heat shock test	As per Declaration
			xv) Loss of mass	As per Declaration

Sl. No.	Product Name	Standards	Test Parameters	Standard Limit
6.	Power Cables	BDS IEC 60502 (Part 1,2,4): 2018	i) High voltage test at 3.5KV (a.c) for 20 minutes	Shall withstand
			ii) Conductor resistance at 20°C in ohm/KM	Nominal
			iii) Total cross sectional area of the conductor in mm ²	As per Declaration
			iv) Radial thickness of insulation in mm	Min: 1.16, Avg:1.40
			v) Radial thickness of sheath in mm	Min: 0.92, Avg:1.20
			vi) Mechanical properties (Without ageing) :	
			a) Tensile Strength at break of insulation in N/ mm ²	Min: 12.50
			b) Elongation at break of insulation in percent in percent.	Min: 150.0
			vii) Mechanical properties (After ageing):	
			a) Tensile Strength at break of insulation in N/ mm ²	Min: 12.50
			b) Elongation at break of insulation in percent	Min: 150.0
			viii) Variation:	
			a) Variation of Tensile Strength for insulation in %	± 25
			b) Variation of Elongation for insulation in %	± 25
			ix) Mechanical properties (Without ageing) :	
			a) Tensile Strength at break of sheath in N/ mm ²	Min: 12.50
			b) Elongation at break of sheath in percent	Min: 150.0
			x) Mechanical properties (After ageing):	
			a) Tensile Strength at break of sheath in N/ mm ²	Min: 12.50
			b) Elongation at break of sheath in percent	Min: 150.0
xi) Variation:				
a) Variation of Tensile Strength for sheath in %	± 25			
b) Variation of Elongation for sheath in %	± 25			
7.	Enamelled Round Copper Conductor (Modified Polyester base/Polyvinyl acetal base)	BDS 1034 (Part 1-5):2006	i) Conductor resistance at 20°C in Ohm/Meter	As per Declaration
			ii) Av. Elongation in percent on 200 mm G.L	As per Declaration
			iii) Av. Overall dia in mm.	As per Declaration
			iv) Av. Conductor dia in mm.	As per Declaration
			v) Heat shock test at 200°C to 205°C for 30 minutes	Shall not show any crack
			vi) Jerk test/Peel Test	Shall not show any sign of flexibility
			vii) Cut through test at (300± 2)°C for 02 minute	Shall Withstand
			viii) Springiness test	As per Declaration
			ix) Av. Breakdown Voltage in volt	As per Declaration

Sl. No.	Product Name	Standards	Test Parameters	Standard Limit
8.	Porcelain Insulator (Up to 1000V)	BDS 1543: 2006	1. With Stand Voltage	As per Declaration
			a) Dry Power Frequency at 70kV for one minute	As per Declaration
			b) Wet Power Frequency at 50kV for one minute	As per Declaration
			2. Flashover Voltage in kV	As per Declaration
			a) Dry Power Frequency	As per Declaration
			b) Wet Power Frequency	As per Declaration
			3. Mechanical Failing Load in kN	As per Declaration
			4. Puncture Voltage in kV	As per Declaration
			5. Porosity test	As per Declaration
9.	Porcelain Insulator (Over 1000V)	BDS IEC 60383 (Part 1): 2006	1. With Stand Voltage	
			a) Dry Power Frequency at 70kV for one minute	As per Declaration
			b) Wet Power Frequency at 50kV for one minute	As per Declaration
			2. Flashover Voltage in kV	
			a) Dry Power Frequency	As per Declaration
			b) Wet Power Frequency	As per Declaration
			3. Mechanical Failing Load in kN	As per Declaration
			4. Puncture Voltage in kV	As per Declaration
			5. Porosity test	As per Declaration
10.	Power transformers- Part 1 : General	BDS IEC 60076 (Part 1): 2016	i) Measurement of winding resistance	As per Declaration
			ii) Measurement of voltage ratio and check of phase displacement	As per Declaration
			iii) Percentage of impedance voltage	7.40-8.60
			iv) No load loss at 415v in watt	As per Declaration
			v) No load current at 415v in Ampere	As per Declaration
			vi) Vector Group Test	As per Declaration
			vii) Insulation resistance Test	Min:2.0
			viii) Full load Loss	As per Declaration
			ix) Temperature Rise Test	As per Declaration
			x) High Voltage Test	As per Declaration
			xi) Total Loss	As per Declaration
11.	Three Phase Induction Motor	BDS 1139: 1986 (Amd 1:2006)	i) Cold test	As per Declaration
			ii) No load test	As per Declaration
			iii) Load test	As per Declaration
			iv) Thermal test	As per Declaration
			v) Mechanical characteristics test	As per Declaration
			vi) Maximum torque test	As per Declaration
			vii) Locked rotor test	As per Declaration
			viii) Insulation resistance test	As per Declaration
			ix) High voltage test	Shall withstand

Sl. No.	Product Name	Standards	Test Parameters	Standard Limit
12.	Cut Out Switches (Main Switch)	BDS 1395: 1993 (Re Afmd 2005)	i) Di-electric withstand voltage test at 1.5 KV(a.c) for one minute	Shall withstand
			ii) Insulation resistance in MΩ :	Min: 100.0
			iii) Dimensions in mm	
			iv) No load switching test	Shall function satisfactorily
			v) Over load switching test at 1.5 times of the rated current.	Shall function satisfactorily
13(A).	Electrical accessories – Circuit-breakers for over current protection for household and similar installations – Part 1: Circuit-breakers for a.c. operation (0 to 20A)	BDS IEC 60898 (Part 1): 2016	i) Reliability of screws, current carrying part and connection	shall not have become loose nor shall their electrical function be impaired
			ii) Di-electric properties :	
			a) Insulation resistance of the main circuit in MΩ	Min : 2.0
			b) Di-electric strength of the main circuit at 2.0 KV (a.c) for 01(One) minute	Shall withstand
			iii) Resistance to heat test for 01 hour at temperature 100 ⁰ C ± 2 ⁰ C	Any damage impairing should not occur & sealing compound should not flow
			iv) Tripping characteristic test	As per Declaration
			v) Instantaneous tripping test	Max: 0.1Sec
			vi) Resistance to abnormal heat at a temperature of 960 ± 15°C for 30 Sec	Should not show any visible flame and self extinguished within 30 Sec.
vii) Resistance to rusting	Shall not show any sign of rust			

Sl. No.	Product Name	Standards	Test Parameters	Standard Limit
13 (B).	Electrical accessories – Circuit-breakers for over current protection for household and similar installations – Part 1: Circuit-breakers for a.c. operation (Above 20A)	BDS IEC 60898 (Part 1): 2016	i) Reliability of screws, current carrying part and connection	Shall function satisfactorily
			ii) Di-electric properties :	
			a) Insulation resistance of the main circuit in M Ω	Min : 2.0
			b) Di-electric strength of the main circuit at 2.0 KV (a.c) for 01(One) minute	Shall withstand
			iii) Resistance to heat test for 01 hour at temperature 100 ⁰ C \pm 2 ⁰ C	Any damage impairing shall not occur & sealing compound shall not flow
			iv) Tripping characteristic test	As per Declaration
			v) Instantaneous tripping test	Max: 0.1Sec
			vi) Resistance to abnormal heat at a temperature of 960 \pm 15 ⁰ C for 30 Sec	Should not show any visible flame and self extinguished within 30 Sec.
vii) Resistance to rusting	Surfaces should not show any sign of rust			
14.	Tumbler and other Switches	BDS IEC 60669 (Part 1): 2018	i) High voltage test at 2.0 kV (a.c) for 01 (one) min	Shall withstand
			ii) Insulation resistance in M Ω	Min: 5
			iii) Checking of dimensions in mm	As per declaration
			iv) Making & breaking capacity test at 1.10 times of the rated voltage & 1.25 times of rated current.	Should function satisfactorily after 50 times of operation
			v) Resistance to heat test for 01 hour at temperature 100 ⁰ C \pm 2 ⁰ C	Shall function satisfactorily
			vi) Resistance to rusting	Shall not show any sign of rust
			vii) Resistance to abnormal heat at a temperature of 750 ⁰ C	Should not show any extinguished within 30 sec.
15(A).	Two pin Socket outlets	BDS IEC 60884 (Part 1-2): 2016	i) Dimensions of the socket terminals	16.66 \pm 0.0127
			ii) Protection against electric shock	Should have adequate protection against accidental contact with live parts
			iii) Insulation resistance in M Ω	Min: 5
			iv) Temperature rise test in K	Max: 45
			v) Breaking capacity test at 1.10 times of the rated voltage & 1.25 times of rated current.	Should function satisfactorily after 50 times of operation

Sl. No.	Product Name	Standards	Test Parameters	Standard Limit
			vi) Mechanical Strength test with a mass of 250 gms	Socket-outlet should not show any damage
			vii) Resistance to heat test for 01 hour at temperature $100^{\circ}C \pm 2^{\circ}C$	Any damage impairing shall not occur & sealing compound shall not flow
			viii) Performance test of screw	No damage impairing should occur
			ix) Resistance to rusting	Surfaces should not show any sign of rust
			x) Resistance to abnormal heat at a temperature of $750^{\circ}C$	Should not show any extinguished within 30 sec.
15 (B).	Two pin plug	BDS IEC 60884 (Part 1-2): 2016	i) Dimensions of the socket terminals	As per Declarations
			ii) Protection against electric shock	Should have adequate protection against accidental contact with live parts
			iii) Insulation resistance in $M\Omega$	Min: 5.0
			iv) Temperature rise test in K	Max: 45
			v) Breaking capacity test at 1.10 times of the rated voltage & 1.25 times of rated current.	Should function satisfactorily after 50 times of operation
			vi) Mechanical Strength test with a mass of 250 gms	Socket-outlet should not show any damage
			vii) Resistance to heat test for 01 hour at temperature $100^{\circ}C \pm 2^{\circ}C$	any damage impairing shall not occur & sealing compound shall not flow
			viii) Performance test of screw	No damage impairing should occur
			ix) Resistance to rusting	Surfaces should not show any sign of rust
			x) Resistance to abnormal heat at a temperature of $750^{\circ}C$	Should not show any visible flame extinguished within 30 sec.
16(A).	Three pin Socket outlets	BDS IEC 60884 (Part 1-2): 2016	i) Clearances in mm	As per Declarations
			ii) Protection against electric shock	Should have adequate protection against accidental contact with live parts
			iii) Insulation resistance in $M\Omega$	Min: 5.0
			iv) Temperature rise test in K	Max: 45
			v) Breaking capacity test at 1.10 times of the rated voltage & 1.25 times of rated current.	Should function satisfactorily after 50 times of operation
			vi) Mechanical Strength test with a mass of 250 gms	Socket-outlet should not show any damage
			vii) Resistance to heat test for 01 hour at temperature $100^{\circ}C \pm 2^{\circ}C$	Any damage impairing shall not occur & sealing compound shall not flow
			viii) Performance test of screw	No damage impairing should occur
			ix) Resistance to rusting	Surfaces should not show any sign of rust
			x) Resistance to abnormal heat at a temperature of $750^{\circ}C$	Should not show any visible flame and self extinguished within 30 sec.

Sl. No.	Product Name	Standards	Test Parameters	Standard Limit
16 (B).	Three pin plug	BDS IEC 60884 (Part 1-2): 2016	i) Clearances in mm	As per Declarations
			ii) Protection against electric shock	Shall have adequate protection against accidental contact with live parts
			iii) Insulation resistance in MΩ	Min: 5.0
			iv) Temperature rise test in K	Max: 45
			v) Breaking capacity test at 1.10 times of the rated voltage & 1.25 times of rated current.	Should function satisfactorily after 50 times of operation
			vi) Mechanical Strength test with a mass of 250 gms	Socket-outlet should not show any damage
			vii) Resistance to heat test for 01 hour at temperature 100° C ± 2° C	Any damage impairing shall not occur & sealing compound shall not flow
			viii) Performance test of screw	No damage impairing should occur
			ix) Resistance to rusting	Surfaces should not show any sign of rust
			x) Resistance to abnormal heat at a temperature of 750°C	Should not show any visible flame and self extinguished within 30 sec.
17.	Ceiling Roses	BDS 116: 2006	i) Dimension in mm.	As per Declarations
			ii) Creepage distance in mm	As per declaration
			iii) Clearances in mm	As per Declarations
			iv) Insulation resistance in Mega-ohm.	Min: 5.0
			v) High voltage test at 1.5kV (a.c) for 1 min.	Shall withstand
			vi) Resistance to heat test for 01 hour at temperature 100° C ± 2° C	Any damage impairing should not occur & sealing compound should not flow
			vii) Resistance to rusting	Surfaces should not show any sign of rust
			viii) Temperature rise test in K	Max: 45.0
			ix) Resistance to abnormal heat at a temperature of 850°C	Should not show any visible flame and self extinguished within 30 sec.
			x) Performance test of screw	No damage impairing should occur
18.	Electronic type Fan Regulator	BDS 1323: 1991	i) High voltage test at 1.5 kV (a.c) for 01(one) minute.	Shall withstand
			ii) Insulation resistance test at 500V (d.c) in MΩ	Min: 2.0
			iii) Moisture resistance test at 500V (d.c) in MΩ	Min: 2.0
			iv) Leakage current test	Should not flow
			v) Protection against electric shock	Should have adequate protection against accidental contact with live parts
			vi) Performance test :	
			a) Starting voltage at the lowest speed position of the regulator	As per Declaration
b) Reduction of speed in percent	Min: 50.0			

Sl. No.	Product Name	Standards	Test Parameters	Standard Limit
19(A).	Electric Circulating Fans & Regulators (Ceiling Fan)	BDS 818: 2006	i) Air delivery in m ³ /min	As per Declaration
			ii) Service Value in m ³ / (min.watt)	As per Declaration
			iii) Electrical input in watt at the rated voltage	As per Declaration
			iv) Max ^m Speed of the fan at rated voltage in RPM	As per Declaration
			v) Power factor of the fan motor	As per Declaration
			vi) Temperature rise of the fan motor in °C	As per Declarations
			vii) Number of blade	As per Declarations
			viii) Leakage current test	Shall not flow
			ix) Mechanical strength test at four times the mass of the fan for 01(one) min.	Suspension system should not breakdown and the fan should function satisfactorily
			x) Electrical strength at 1.06 times of the rated voltage 01 (one) minute	Shall withstand
19(B).	Electric Circulating Fans & Regulators (Padestal Fan, Table Fan)	BDS 818: 2006	i) Air delivery in m ³ /min	As per Declaration
			ii) Service Value in m ³ / (min.watt)	As per Declaration
			iii) Electrical input in watt at the rated voltage	As per Declaration
			iv) Maxm Speed of the fan at rated voltage in RPM	As per Declaration
			v) Speed of the fan at rated voltage in RPM	As per Declaration
			vi) Minm no. of regulated speeds position	As per Declarations
			vii) No. of oscillation of the fan at full speed/ min	As per Declarations
			viii) No. of blades	As per Declarations
			ix) Reduction of speed by the regulator	As per Declarations
			x) Speed of the fan at various steps of the regulator	As per Declarations
			xi) Leakage current test	Shall not flow
20.	AC electric ventilating fans and regulators for household and similar purpose	BDS IEC 60665:2020	i) Air delivery in m ³ /min	As per Declarations
			ii) Service value in m ³ /min/watt	As per Declarations
			iii) Electrical input in watt at the rated voltage	As per Declarations
			iv) Maximum Speed of the fan at rated voltage in RPM	As per Declarations
			v) Power factor of the fan motor	As per Declarations
			vi) Number of blade	As per Declarations
			vii) Temperature rise of the fan motor in °C	As per Declarations
			viii) Leakage current test	Shall not flow

Sl. No.	Product Name	Standards	Test Parameters	Standard Limit
21(A).	Tungsten Filament Lamp (0-25W)	BDS 17: 2006	i) Dimensions of the lamp's cap	As per Declarations
			ii) Overall length of the lamps in mm.	As per Declarations
			iii) Dia. of the shell in mm.	Max: 62.00
			iv) Bulb finish	Shall clear or internally frosted
			v) Wattage at the rated voltage	As Per Declaration
			vi) Initial lumen	As Per Declaration
			vii) Final Lumen	As Per Declaration
			viii) Ratio of luminous flux at 1000 hrs to the initial luminous flux in percent	As Per Declaration
			ix) Average life of a batch of lamps in hrs.	As Per Declaration
			x) No. of lamps of a batch having life shorter than 750 hrs.	Max: 9.0
21(B).	Tungsten Filament Lamp (40-75W)	BDS 17: 2006	i) Dimensions of the lamp's cap	As per Declarations
			ii) Overall length of the lamps in mm.	As per Declarations
			iii) Dia. of the shell in mm.	Max: 62.00
			iv) Bulb finish	Shall clear or internally frosted
			v) Wattage at the rated voltage	As Per Declaration
			vi) Initial lumen	As Per Declaration
			vii) Final Lumen	As Per Declaration
			viii) Ratio of luminous flux at 1000 hrs to the initial luminous flux in percent	As Per Declaration
			ix) Average life of a batch of lamps in hrs.	As Per Declaration
			x) No. of lamps of a batch having life shorter than 750 hrs.	Max: 9.0
21(C).	Tungsten Filament Lamp (100W & above)	BDS 17: 2006	i) Dimensions of the lamp's cap	As per Declarations
			ii) Overall length of the lamps in mm.	As per Declarations
			iii) Dia. of the shell in mm.	Max: 62.00
			iv) Bulb finish	Shall clear or internally frosted
			v) Wattage at the rated voltage	As Per Declaration
			vi) Initial lumen	As Per Declaration
			vii) Final Lumen	As Per Declaration
			viii) Ratio of luminous flux at 1000 hrs to the initial luminous flux in percent	As Per Declaration
			ix) Average life of a batch of lamps in hrs.	As Per Declaration
			x) No. of lamps of a batch having life shorter than 750 hrs.	As per Declarations

Sl. No.	Product Name	Standards	Test Parameters	Standard Limit
22(A).	Double Capped Fluorescent Lamps Performance Requirements (18W)	BDS IEC 60081: 2006	i) Dimensions of the Lamp cap in mm	As per Declarations
			ii) Dimensions of the Lamp in mm	As per Declarations
			iii) Lamp diameter in mm	Max ^m 28.0 mm
			iv) Initial power dissipation in watt	Max ^m 107.5% of the declared value
			v) Pre-heating current in amp.	Nominal 0.55
			vi) Running current in amp.	Nominal 0.37
			vii) Lamp initial terminal voltage in volt	50.0 – 64.0 Volts
			viii) Starting time in sec	Max ^m 30 Seconds
			ix) Initial luminous flux in lumen	Min ^m 92.5% of the declared value
			x) Initial chromaticity (SDCM)	Max ^m 5.0
			xi) Initial color rendering index	Min ^m less than 3 of the declared value
			xii) Lumen maintenance in percent -Ratio of luminous flux at 2000 hrs to the initial luminous flux in percent	As Per Declaration
22(B).	Double Capped Fluorescent Lamps Performance Requirements (36W)	BDS IEC 60081: 2006	i) Dimensions of the Lamp cap in mm	As per Declarations
			ii) Dimensions of the Lamp in mm	As per Declarations
			iii) Lamp diameter in mm	Max ^m 28.0 mm
			iv) Initial power dissipation in watt	Max ^m 107.5% of the declared value
			v) Pre-heating current in amp.	Nominal 0.55
			vi) Running current in amp.	Nominal 0.43
			vii) Lamp initial terminal voltage in volt	93.0 – 113.0 Volts
			viii) Starting time in sec	Max ^m 30 Seconds
			ix) Initial luminous flux in lumen	Min ^m 92.5% of the declared value
			x) Initial chromaticity (SDCM)	Max ^m 5.0
			xi) Initial color rendering index	Min ^m less than 3 of the declared value
			xii) Lumen maintenance in percent -Ratio of luminous flux at 2000 hrs to the initial luminous flux in percent	As Per Declaration

Sl. No.	Product Name	Standards	Test Parameters	Standard Limit
23(A).	Self Ballasted Lamp Up to 20W	BDS IEC-60968: 2022	i) Dimensions of the Lamps Cap	As per Declarations
			ii) Insulation resistance betn current carrying metal parts of the cap & accessible parts of the lamp in MΩ	Min ^m 4.00 MΩ
			iii) Electrical strength test at 4.0 KV (r.m.s) for 01 (One) minute	No flashover or breakdown shall occur
			iv) Mechanical strength test at 3.0 Nm	Cap shall not be dismantled
			v) Input power at the rated voltage in watt	Max ^m 107.5% of the declared value
			vi) Initial lumen	Min ^m 92.5% of the declared value
			vii) Ratio of luminous flux at 2000hrs to the initial luminus flux in percent	As Per Declaration
			viii) Individual lives of the lamps in hours	As Per Declaration
			ix) Starting time of the lamp in sec.	As per Declaration
			x) Correlate color temperature - K	As Per Declaration
			xi) Performance grading (PG)	As per Declarations
23(B).	Self Ballasted Lamp Above 20W	BDS 1734: 2003	i) Dimensions of the Lamps Cap	As per Declarations
			ii) Insulation resistance betn current carrying metal parts of the cap & accessible parts of the lamp in MΩ	Min ^m 4.00 MΩ
			iii) Electrical strength test at 4.0 KV (r.m.s) for 01 (One) minute	No flashover or breakdown shall occur
			iv) Mechanical strength test at 3.0 Nm	Cap shall not be dismantled
			v) Input power at the rated voltage in watt	Max ^m 107.5% of the declared value
			vi) Initial lumen	Min ^m 92.5% of the declared value
			vii) Ratio of luminous flux at 2000hrs to the initial luminus flux in percent	As Per Declaration
			viii) Individual lives of the lamps in hours	As Per Declaration
			ix) Starting time of the lamp in sec.	As per Declarations
			x) Correlate color temperature - K	As Per Declaration
			xi) Performance grading (PG)	As per Declarations

Sl. No.	Product Name	Standards	Test Parameters	Standard Limit
24(A).	Self-ballasted LED lamps for general lighting services with supply voltages > 50 V – Performance requirements Up to 20W	BDS IEC 62612 : 2015	i) Dimensions of the Lamps Cap	As per Declarations
			ii) Insulation resistance betn current carrying metal parts of the cap & accessible parts of the lamp in MΩ	Min ^m 4.00 MΩ
			iii) Electrical strength test at 4.0 KV (r.m.s) for 01 (One) minute	No flashover or breakdown shall occur
			iv) Mechanical strength test at 3.0 Nm	Cap shall not be dismantled
			v) Input power at the rated voltage in watt	Max ^m 107.5% of the declared value
			vi) Initial lumen	Min ^m 92.5% of the declared value
			vii) Ratio of luminous flux at 2000hrs to the initial luminus flux in percent	As Per Declaration
			viii) Individual lives of the lamps in hours	As Per Declaration
			ix) Color Rendering Index	As per Declaration
			x) Correlate Color Temperature - K	As Per Declaration
			xi) Efficacy	As per Declaration
			xii) Displacement Factor	As per Declaration
24(B).	Self-ballasted LED lamps for general lighting services with supply voltages > 50 V – Performance requirements Above 20W	BDS IEC 62612 : 2015	i) Dimensions of the Lamps Cap	As per Declaration
			ii) Insulation resistance betn current carrying metal parts of the cap & accessible parts of the lamp in MΩ	As per Declaration
			iii) Electrical strength test at 4.0 KV (r.m.s) for 01 (One) minute	Shall satisfactory
			iv) Mechanical strength test at 3.0 Nm	Shall satisfactory
			v) Input power at the rated voltage in watt	As per Declaration
			vi) Initial lumen	As per Declaration
			vii) Ratio of luminous flux at 2000hrs to the initial luminus flux in percent	As per Declaration
			viii) Individual lives of the lamps in hours	As per Declaration
			ix) Color Rendering Index	As per Declaration
			x) Correlate Color Temperature - K	As per Declaration
			xi) Efficacy	Min: 80%
			xii) Displacement Factor	As per Declaration
25.	Ballast for Fluorescent Lamp	BDS IEC 60921: 2005	i) Open circuit voltage in volt at termination of starter	Shall satisfactory
			a) At 92% of the rated voltage	
			b) At 106% of the rated voltage	
			ii) Pre heating current in amp	As per Declaration
			a) At 106% of the rated voltage	
			b) At 106% of the rated voltage	
			iii) Running current in amp	As per Declarations
			a) At 106% of the rated voltage	
			b) At 106% of the rated voltage	
			iv) Input power in watt.	As per Declaration
v) Supply current in Amp.	As per Declaration			

Sl. No.	Product Name	Standards	Test Parameters	Standard Limit
26.	Electronic Ballast	BDS IEC 60929: 2005	i) Total circuit power in watt	As per Declaration
			ii) Circuit power factor	As per Declaration
			iii) Supply current in Amp	As per Declaration
			iv) Maxm Current crest factor	As per Declaration
			v) Magnetic influence in percent	As per Declaration
			vi) Operational test abnormal condition	As per Declaration
			vii) Endurance test	Shall satisfactory
27.	Electric irons for household or similar use – Methods for measuring performance	BDS IEC 60311: 2018	i) High voltage test at 1.0 kV (a.c) for 01 (one) min	Shall satisfactory
			ii) Insulation resistance at 500V(dc) in MΩ	Min: 20
			iii) Wattage at the rated Voltage 230V in Watt	As per Declaration
			iv) Leakage Current Test betn. Sole Plate & Earth at the two terminals	Leakage current shall not flow
			v) Endurance Test for 500 hrs.	Shall function satisfactory
			vi) Cord Guard Test	Shall not show any damage
			vii) Drop Test (1000 drops) (After 500 hrs of endurance test)	Shall not show any breakage or distortion
			viii) Temperature Rise of the Sole Plate in °C	1 Dot: 70-120 2 Dot: 100-160 3 Dot: 140-210
28.	Air Conditioner	BDS 1852:2022	i) Cooling Capacity in kW	As per Declaration
			ii) Effective Power Input in kW	As per Declaration
			iii) EER/SEER Test	As per Declaration
			iv) Power factor	As per Declaration
			v) Maximum Cooling Test	As per Declaration
			vi) Minimum Cooling Performance Test	shall operate without any indication of damage
			vii) Reduction of Indoor side airflow rate at Minimum Cooling.	Max:25
			viii) Freeze up drip Performance Test	No Ice/water shall drip /blow off the equipment on the indoor side
			ix) Sweat Performance test	Shall not drip/blow water from the equipment
29.	Specification for energy-efficiency star rating of household refrigerators. Refrigerator-freezers and freezers	BDS 1849: (1-3) 2024 BDS 1850:2024	i) Ice Making Capacity in kg/24hrs.	As per Declaration
			ii) Pull down test in minutes	Min: 360
			iii) Temperature Performance test at 16 °C	≤-15
			iv) Temperature Performance test at 32 °C	≤-15
			v) Total gross volume in liter	As per Declaration
			vi) Total storage volume in liter	As per Declaration
			vii) Power consumption in kWh/year	As per Declaration
			viii) Determination of Star rating	As per Declaration

Sl. No.	Product Name	Standards	Test Parameters	Standard Limit
30.	AC Energy Meter: Induction type (Class 1 & 2)	BDS IEC 62053 (Part 11): 2013	i) A.C voltage test	Shall withstand
			ii) Meter constant test in imp/ kWh	1000/16000 imp/Kw
			iii) Starting current test	Shall satisfactory
			iv) No load condition test	shall not emit any pulse
			v) Power consumption	As per Declaration
			vi) Test of percentage error limits	±1.00
31.	AC Energy Meter: Static watt-hour meter (Class-1)	BDS IEC 62053 (Part 21): 2013	i) A.C voltage test	Shall withstand
			ii) Meter constant test in imp/ kWh	1000/16000 imp/Kw
			iii) Starting current test	Shall satisfactory
			iv) No load condition test	shall not emit any pulse
			v) Power consumption	As per Declaration
			vi) Test of percentage error limits	±1.00
32.	Electricity metering – payment systems – Part: 31 Particular requirements – Static payment meters for active energy (Classes 1 and 2)	BDS IEC 62055 (Part 31): 2017	i) A.C voltage test	Shall withstand
			ii) Meter constant test in imp/ kWh	1000 imp/Kw
			iii) Starting current test	Shall satisfactory
			iv) No load condition test	shall not emit any pulse
			v) Power consumption	As per Declaration
			vi) Test of percentage error limits	±1.00
33.	Primary Dry cell Battery	BDS IEC 60086 (Part 1-5): 2016	i) Dimensions of batteries in mm	As per Declaration
			ii) Open circuit Voltage in volt	As per Declaration
			iii) Discharge test of 09 batteries in volt	As per Declaration
			iv) Leakage and deformation test	shall not have any leakage
34.	Primary Dry cell Battery (Watch Batteries)	BDS IEC 60086 (Part 1-5): 2016	i) Dimension of the battery in mm	As per Declaration
			ii) Electrical characteristic test	Shall be satisfactory
			iii) Capacity in amp-hour	As per Declaration
35.	Lead Acid Starter Battery (LAS Battery)	BDS 206 (Part 1-3): 2002	i) Dimension in mm	As per declaration
			ii) Effective capacity test in AHC	Nominal
			iii) Cranking performance test (Cold)	As per Declaration
			iv) Charge retention in volt	As per Declaration
			v) Endurance test in volt	Shall be satisfactory
			vi) Electrolyte retention test	Min: 8.0
			vii) Charge acceptance test in amps	Min 40.0
36.	Battery charge controllers for photovoltaic system- Performance and functioning	BDS IEC 62509:2016	i) Reverse current test	As per Declaration
			ii) Charging cycle test	As per Declaration
			iii) Efficiency, thermal performance and PV over current test	As per Declaration
			iv) Battery to PV generator leakage current test	As per Declaration
			v) Load disconnect / load reconnect test	As per Declaration
			vi) Energy performance tests (Standby self-consumption test and Efficiency test)	As per Declaration
			vii) Load over current protection test	As per Declaration
			viii) PV over current protection test	As per Declaration
			ix) Battery reverse polarity test	As per Declaration
			x) PV generator reverse polarity test	As per Declaration
			xi) Battery open circuit test	As per Declaration

Sl. No.	Product Name	Standards	Test Parameters	Standard Limit
37.	Terrestrial photovoltaic (PV) modules (Solar Module/ Panel)	BDS IEC 61215-1,2:2019	i) Short Circuit Current Test	shall withstand
			ii) Open Circuit Voltage Test	shall withstand
			iii) Maximum Power Test	As per Declaration
		BDS IEC 61730-1,2:2019	iv) Visual Inspection Test	shall not any sharp edge
			v) Marking and documentation	As per Declaration
			vi) Insulation Test at 1000 V for 2 min.	Shall be satisfactory
			vii) High Voltage Test.	Shall be satisfactory
			viii) Insulation Thickness Test	As per Declaration
			ix) Durability of Marking	As per Declaration
			x) Sharp edge Test	Shall be satisfactory
			xi) Hot Spot Endurance	Shall be satisfactory
38.	PV Inverter	BDS IEC 62109(Part 1-2): 2016	i) Conversion efficiency	As per Declaration
			ii) Maximum Power Point Tracking Efficiency	As per Declaration
			iii) Real-time monitoring of I-V outputs with fast response time	As per Declaration
		BDS IEC 61727: 2020	iv) Operating input voltage	As per Declaration
			v) Maximum DC input current	Shall withstand
			vi) Maximum output power rating	As per Declaration
			vii) Grid voltage range	Shall be satisfactory
		BDS IEC 62116: 2016	viii) MPPT performance of the inverter for different irradiance values	Shall be satisfactory
			ix) Individual harmonic distortion performance	As per Declaration
			x) Total harmonic distortion (THD) in percentage	As per Declaration
39.	Storage Water Heater-Geyser	BDS IEC 60335-2-21	i) Input Power in Watt	As per Declaration
			ii) Input Current in A	As per Declaration
			iii) Protection against access to live parts	Shall be satisfactory
			iv) Leakage current and electric strength at 1.15 times of rated power input	As per Declaration
			v) Temperature rises of external accessible surface	As per Declaration
40.	Lead Acid Traction Battery	BDS IEC 60254-1	i) Dimension in mm	As per Declaration
			ii) Effective capacity test in AHC	Nominal
			iii) High-rate discharge performance test	Shall be satisfactory
			iv) Charge retention in volt	As per Declaration
			v) Cyclic endurance test in volt	As per Declaration
			vi) Energy density test	As per Declaration
41.	Household Micro-Wave Oven	BDS IEC 60705	i) Usable internal dimensions and calculated volume	As per Declaration
			ii) Overall internal dimensions and overall volume	As per Declaration
			iii) Microwavepower output	As per Declaration
			iv) Efficiency	As per Declaration
			v) Heating performance	Shall satisfactory
			vi) Defrosting performance	As per Declaration
			vii) Energy consumption	As per Declaration

Sl. No.	Product Name	Standards	Test Parameters	Standard Limit
42.	Uninterruptable Power Systems (UPS)	BDS IEC 62040-3	i) Rated output voltage	As per Declaration
			ii) Rated output current	As per Declaration
			iii) Rated frequency	As per Declaration
			iv) Total harmonic distortion of voltage: – normal mode – stored energy mode	As per Declaration
			v) Load power factor at rated load	As per Declaration
			vi) UPS efficiency in normal mode	As per Declaration
			vii) Stored energy time (back-up time at reference test load)	Shall be satisfactory
			viii) Input voltage & current	As per Declaration
			43.	Single Phase Small AC and Universal Electric Motors
ii) Torque test at rated voltage and frequency	As per Declaration			
iii) Breakaway starting current test at rated voltage and frequency	As per Declaration			
iv) Full load performance test at rated voltage and frequency	As per Declaration			
v) Temperature rise test	As per Declaration			
vi) Momentary overload test	As per Declaration			
44.	MCCB Low-Voltage Switchgear and Controlgear-Part 2: Circuit-Breakers	BDS IEC 60947-2	i) Clearance and Creepage distance	As per Declaration
			ii) Tripping characteristic test	As per Declaration
			iii) Instantaneous tripping test	Max: 0.1Sec
			iv) Di-electric properties	Insulation resistance shall Min : 2.0
			v) Di-electric strength test	Shall withstand
			vi) Overload releases test	Shall withstand
			vii) Short time withstand current test	Shall withstand
			viii) Overload Performance test/Endurance Test	As per Declaration
			ix) Temperature rise test	Shall not exceed 45°C
			x) Short Circuit breaking Capacity test	Shall withstand
45.	Wall Clocks (battery operated)	BDS 1722	i) Visual Test	Shall satisfactory
			ii) Circuit Efficiency Test	Shall not exceed 6Wh
			iii) Accuracy test	Max deviation 12 for Grade-A, 30 for Grade-B
46.	Electric Kettles for Domestic Use	BDS 253	i) Insulation Resistance Test at 500V	Min : 2.0 MΩ
			ii) Leakage Current Test	Shall not exceed 0.5mA
			iii) High Voltage Test at 1500V (rms)	Shall withstand
			iv) Earthing Resistance Test on a 6V Circuit	Shall not more than 1.0 Ω
			v) Wattage Input Test (after 15 minutes continuous operation)	As per declaration
			vi) Temperature rise of Rubber Insulation of the flexible cord	Shall not exceed 67°C
			vii) Capacity Test at rated loading	Quantity of water shall not less than rated capacity
			viii) Heat Efficiency Test	Shall not less than 80%
			ix) Endurance Test for 1000 operating hours at 1.1 times the maximum rated input	Shall not mechanical failure

Physical Testing Wing

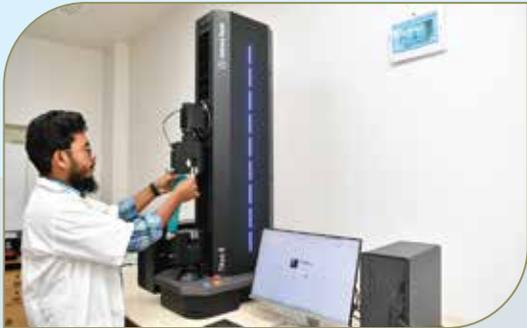
Textile Division



Fabric Shrinkage Test



Wrap Reel



Fabric Strength Test



Colour Fastness Test

Mandatory Products and their parameters of Physical Testing Wing

Textile Division

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
1 (i)	Textile Colour Fastness Rating (Innerwear Fabrics) (Cotton-Woven)	BDS1758: 2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	3-4	
			Colour fastness to Perspiration	i)Acidic-Change in colour	4	BDS ISO 105 E 04:2016
				ii)Acidic-Staining Acetate	4	
				iii)Acidic-Staining Cotton	4	
				iv) Acidic-Staining Nylon	4	
				v)Acidic-Staining Polyester	4	
				vi)Acidic-Staining Acrylic	4	
				vii) Acidic-Staining Wool	4	
				viii)Alkaline-Change in colour	4	
				ix) Alkaline-Staining Acetate	4	
				x) Alkaline-Staining Cotton	4	
				xi) Alkaline-Staining Nylon	4	
				xii) Alkaline-Staining Polyester	4	
				xiii) Alkaline-Staining Acrylic	4	
				xiv) Alkaline-Staining Wool	4	
			Colour fastness to Dry Cleaning	i) Change in colour	4	BDS ISO 105 D 01:2011
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
iv) Staining Nylon	4					
v) Staining Polyester	4					
vi) Staining Acrylic	4					
vii) Staining Wool	4					
1 (ii)	Textile Colour Fastness Rating (Innerwear Fabrics) (Woolen, Silk, Knitted)	BDS 1758:2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	3-4	
			Colour fastness to Washing (A1)	i) Change in colour	4	BDS ISO 105 C 10:2010 (A1)
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
				iv) Staining Nylon	4	
				v) Staining Polyester	4	
				vi) Staining Acrylic	4	
				vii) Staining Wool	4	
			Colour fastness to Dry Cleaning	i) Change in colour	4	BDS ISO 105 D 01:2011
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
				iv) Staining Nylon	4	
				v) Staining Polyester	4	
				vi) Staining Acrylic	4	
				vii) Staining Wool	4	

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
1 (iii)	Textile Colour Fastness Rating (Innerwear Fabrics) (Manmade and Blended)	BDS 1758:2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	3-4	
			Colour fastness to Washing (B2)	i) Change in colour	4	BDS ISO 105 C 10:2010 (B2)
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
				iv) Staining Nylon	4	
				v) Staining Polyester	4	
				vi) Staining Acrylic	4	
				vii) Staining Wool	4	
			Colour fastness to Dry Cleaning	i) Change in colour	4	BDS ISO 105 D 01:2011
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
				iv) Staining Nylon	4	
v) Staining Polyester	4					
vi) Staining Acrylic	4					
vii) Staining Wool	4					
1 (iv)	Textile Colour Fastness Rating (Outerwear Fabrics) (Cotton-Woven)	BDS 1758:2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	3-4	
			Colour fastness to Washing (C3)	i) Change in colour	4	BDS ISO 105 C 10:2010 (C3)
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
				iv) Staining Nylon	4	
				v) Staining Polyester	4	
				vi) Staining Acrylic	4	
				vii) Staining Wool	4	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4	
				iii) Acidic-Staining Cotton	4	
				iv) Acidic-Staining Nylon	4	
				v) Acidic-Staining Polyester	4	
				vi) Acidic-Staining Acrylic	4	
				vii) Acidic-Staining Wool	4	
				viii) Alkaline-Change in colour	4	
				ix) Alkaline-Staining Acetate	4	
				x) Alkaline-Staining Cotton	4	
				xi) Alkaline-Staining Nylon	4	
				xii) Alkaline-Staining Polyester	4	
xiii) Alkaline-Staining Acrylic	4					
xiv) Alkaline-Staining Wool	4					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
			Colour fastness to Dry Cleaning	i) Change in colour	4	BDS ISO 105 D 01:2011
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
				iv) Staining Nylon	4	
				v) Staining Polyester	4	
				vi) Staining Acrylic	4	
				vii) Staining Wool	4	
1 (v)	Textile Colour Fastness Rating (Outerwear Fabrics) (Woolen, Silk, Knitted)	BDS1758:2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	3-4	
			Colour fastness to Washing (A1)	i) Change in colour	4	BDS ISO 105 C 10:2010 (A1)
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
				iv) Staining Nylon	4	
				v) Staining Polyester	4	
				vi) Staining Acrylic	4	
				vii) Staining Wool	4	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4	
				iii) Acidic-Staining Cotton	4	
				iv) Acidic-Staining Nylon	4	
				v) Acidic-Staining Polyester	4	
				vi) Acidic-Staining Acrylic	4	
				vii) Acidic-Staining Wool	4	
				viii) Alkaline-Change in colour	4	
				ix) Alkaline-Staining Acetate	4	
				x) Alkaline-Staining Cotton	4	
				xi) Alkaline-Staining Nylon	4	
xii) Alkaline-Staining Polyester	4					
xiii) Alkaline-Staining Acrylic	4					
xiv) Alkaline-Staining Wool	4					
Colour fastness to Dry Cleaning	i) Change in colour	4	BDS ISO 105 D 01:2011			
	ii) Staining Acetate	4				
	iii) Staining Cotton	4				
	iv) Staining Nylon	4				
	v) Staining Polyester	4				
	vi) Staining Acrylic	4				
	vii) Staining Wool	4				

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
1 (vi)	Textile Colour Fastness Rating (Outerwear Fabrics) (Manmade and Blended)	BDS1758:2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	3-4	
			Colour fastness to Washing (B2)	i) Change in colour	4	BDS ISO 105 C 10:2010 (B2)
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
				iv) Staining Nylon	4	
				v) Staining Polyester	4	
				vi) Staining Acrylic	4	
				vii) Staining Wool	4	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4	
				iii) Acidic-Staining Cotton	4	
				iv) Acidic-Staining Nylon	4	
				v) Acidic-Staining Polyester	4	
				vi) Acidic-Staining Acrylic	4	
				vii) Acidic-Staining Wool	4	
				viii) Alkaline-Change in colour	4	
				ix) Alkaline-Staining Acetate	4	
				x) Alkaline-Staining Cotton	4	
				xi) Alkaline-Staining Nylon	4	
				xii) Alkaline-Staining Polyester	4	
				xiii) Alkaline-Staining Acrylic	4	
				xiv) Alkaline-Staining Wool	4	
			Colour fastness to Dry Cleaning	i) Change in colour	4	BDS ISO 105 D 01:2011
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
				iv) Staining Nylon	4	
				v) Staining Polyester	4	
				vi) Staining Acrylic	4	
vii) Staining Wool	4					
Colour Fastness to Hot Pressing	a) Dry condition- Change in colour	4	BDS ISO 105-X11:2005			
	b) Dry condition- Staining	4				
	c) Damp condition- Change in colour	4				
	d) Damp condition- Staining	4				
	e) Wet condition- Change in colour	4				
	f) Wet condition- Staining	4				

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
1 (vii)	Textile Colour Fastness Rating (Swimwear fabrics)	BDS 1758:2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Washing (B2)	i) Change in colour	4	BDS ISO 105 C 10:2010 (B2)
				ii) Staining Tri-Acetate	3	
				iii) Staining Cotton	3	
				iv) Staining Nylon	3	
				v) Staining Polyester	3	
				vi) Staining Acrylic	3	
				vii) Staining Viscose	3	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	3	
				iii) Acidic-Staining Cotton	3	
				iv) Acidic-Staining Nylon	3	
				v) Acidic-Staining Polyester	3	
				vi) Acidic-Staining Acrylic	3	
				vii) Acidic-Staining Wool	3	
				viii) Alkaline-Change in colour	4	
				ix) Alkaline-Staining Acetate	3	
				x) Alkaline-Staining Cotton	3	
				xi) Alkaline-Staining Nylon	3	
				xii) Alkaline-Staining Polyester	3	
				xiii) Alkaline-Staining Acrylic	3	
				xiv) Alkaline-Staining Wool	3	
			Colour fastness to Chlorinated water	i) Change in colour	4	BDS ISO 105 E03:
				ii) Staining Tri-Acetate	3	
				iii) Staining Cotton	3	
				iv) Staining Nylon	3	
				v) Staining Polyester	3	
vi) Staining Acrylic	3					
vii) Staining Viscose	3					
Colour fastness to Sea water	i) Change in colour	4	BDS ISO 105 E2:			
	ii) Staining Tri-Acetate	3-4				
	iii) Staining Cotton	3-4				
	iv) Staining Nylon	3-4				
	v) Staining Polyester	3-4				
	vi) Staining Acrylic	3-4				
	vii) Staining Viscose	3-4				

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
1 (viii)	Textile Colour Fastness Rating (Toweling Fabrics) (Cotton-Woven)	BDS1758:2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	3	
			Colour fastness to Washing (D4)	i) Change in colour	4	BDS ISO 105 C 10:2010 (D4)
				ii) Staining Tri-Acetate	4	
				iii) Staining Cotton	4	
				iv) Staining Nylon	4	
				v) Staining Polyester	4	
				vi) Staining Acrylic	4	
				vii) Staining Viscose	4	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	3	
				iii) Acidic-Staining Cotton	3	
				iv) Acidic-Staining Nylon	3	
				v) Acidic-Staining Polyester	3	
				vi) Acidic-Staining Acrylic	3	
				vii) Acidic-Staining Wool	3	
				viii) Alkaline-Change in colour	4	
				ix) Alkaline-Staining Acetate	3	
				x) Alkaline-Staining Cotton	3	
xi) Alkaline-Staining Nylon	3					
xii) Alkaline-Staining Polyester	3					
xiii) Alkaline-Staining Acrylic	3					
xiv) Alkaline-Staining Wool	3					
1 (ix)	Textile Colour Fastness Rating (Toweling Fabrics) (Manmade and Blended)	BDS1758:2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	3	
			Colour fastness to Washing (B2)	i) Change in colour	4	BDS ISO 105 C 10:2010 (B2)
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
				iv) Staining Nylon	4	
				v) Staining Polyester	4	
				vi) Staining Acrylic	4	
				vii) Staining Wool	4	
	viii) Alkaline-Change in colour	4				
	ix) Alkaline-Staining Acetate	3				

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
				x) Alkaline-Staining Cotton	3	
				xi) Alkaline-Staining Nylon	3	
				xii) Alkaline-Staining Polyester	3	
				xiii) Alkaline-Staining Acrylic	3	
				xiv) Alkaline-Staining Wool	3	
1 (x)	Textile Colour Fastness Rating (Rainwear and water poof fabrics)	BDS1758:2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	3-4	BDS ISO 105 X 12:2017
				b) Wet rub-	3	
			Colour fastness to Water	i) Change in colour	4	BDS ISO 105 E 01:2016
				ii) Staining Acetate	3-4	
				iii) Staining Cotton	3-4	
				iv) Staining Nylon	3-4	
				v) Staining Polyester	3-4	
				vi) Staining Acrylic	3-4	
				vii) Staining Wool	3-4	
1 (xi)	Textile Colour Fastness Rating (Curtain and drapery fabrics)	BDS1758:2022	Colour fastness test to Light (Sunlight)		5 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	3	
			Colour fastness to Washing (B2)	i) Change in colour	4	BDS ISO 105 C 10:2010 (B2)
				ii) Staining Acetate	3	
				iii) Staining Cotton	3	
				iv) Staining Nylon	3	
				v) Staining Polyester	3	
				vi) Staining Acrylic	3	
				vii) Staining Wool	3	
			Colour fastness to Dry Cleaning	i) Change in colour	4	BDS ISO 105 D 01:2011
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
				iv) Staining Nylon	4	
				v) Staining Polyester	4	
				vi) Staining Acrylic	4	
				vii) Staining Wool	4	

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
1 (xii)	Textile Colour Fastness Rating (Upholstery fabric and ticking)	BDS 1758:2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	3	
			Colour fastness to Washing (A1)	i) Change in colour	4	BDS ISO 105 C 10:2010 (A1)
				ii) Staining Acetate	3	
				iii) Staining Cotton	3	
				iv) Staining Nylon	3	
				v) Staining Polyester	3	
				vi) Staining Acrylic	3	
				vii) Staining Wool	3	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4	
				iii) Acidic-Staining Cotton	4	
				iv) Acidic-Staining Nylon	4	
				v) Acidic-Staining Polyester	4	
				vi) Acidic-Staining Acrylic	4	
				vii) Acidic-Staining Wool	4	
				viii) Alkaline-Change in colour	4	
				ix) Alkaline-Staining Acetate	4	
				x) Alkaline-Staining Cotton	4	
				xi) Alkaline-Staining Nylon	4	
				xii) Alkaline-Staining Polyester	4	
				xiii) Alkaline-Staining Acrylic	4	
				xiv) Alkaline-Staining Wool	4	
			Colour fastness to Dry Cleaning	i) Change in colour	4	BDS ISO 105 D 01:2011
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
iv) Staining Nylon	4					
v) Staining Polyester	4					
vi) Staining Acrylic	4					
vii) Staining Wool	4					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
1 (xiii)	Textile Colour Fastness Rating (Blankets, shawls and lohis)	BDS 1758:2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	3	
			Colour fastness to Washing (A1)	i) Change in colour	3	BDS ISO 105 C 10:2010 (A1)
				ii) Staining Acetate	3	
				iii) Staining Cotton	3	
				iv) Staining Nylon	3	
				v) Staining Polyester	3	
				vi) Staining Acrylic	3	
				vii) Staining Wool	3	
			Colour fastness to Perspiration	i) Acidic-Change in colour	3	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	3	
				iii) Acidic-Staining Cotton	3	
				iv) Acidic-Staining Nylon	3	
				v) Acidic-Staining Polyester	3	
				vi) Acidic-Staining Acrylic	3	
				vii) Acidic-Staining Wool	3	
				viii) Alkaline-Change in colour	3	
				ix) Alkaline-Staining Acetate	3	
				x) Alkaline-Staining Cotton	3	
				xi) Alkaline-Staining Nylon	3	
				xii) Alkaline-Staining Polyester	3	
				xiii) Alkaline-Staining Acrylic	3	
xiv) Alkaline-Staining Wool	3					
Colour fastness to Dry Cleaning	i) Change in colour	4	BDS ISO 105 D 01:2011			
	ii) Staining Acetate	4				
	iii) Staining Cotton	4				
	iv) Staining Nylon	4				
	v) Staining Polyester	4				
	vi) Staining Acrylic	4				
	vii) Staining Wool	4				

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
1 (xiv)	Textile Colour Fastness Rating (Overcoats, overalls, Jackets dungaree, flannels and blazer) (Cotton-Woven)	BDS 1758:2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	3	
			Colour fastness to Washing (B2)	i) Change in colour	4	BDS ISO 105 C 10:2010 (B2)
				ii) Staining Acetate	3	
				iii) Staining Cotton	3	
				iv) Staining Nylon	3	
				v) Staining Polyester	3	
				vi) Staining Acrylic	3	
				vii) Staining Wool	3	
			Colour fastness to Perspiration	i) Acidic-Change in colour	3	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	3	
				iii) Acidic-Staining Cotton	3	
				iv) Acidic-Staining Nylon	3	
				v) Acidic-Staining Polyester	3	
				vi) Acidic-Staining Acrylic	3	
				vii) Acidic-Staining Wool	3	
				viii) Alkaline-Change in colour	3	
				ix) Alkaline-Staining Acetate	3	
				x) Alkaline-Staining Cotton	3	
				xi) Alkaline-Staining Nylon	3	
				xii) Alkaline-Staining Polyester	3	
				xiii) Alkaline-Staining Acrylic	3	
xiv) Alkaline-Staining Wool	3					
Colour fastness to Dry Cleaning	i) Change in colour	4	BDS ISO 105 D 01:2011			
	ii) Staining Acetate	4				
	iii) Staining Cotton	4				
	iv) Staining Nylon	4				
	v) Staining Polyester	4				
	vi) Staining Acrylic	4				
	vii) Staining Wool	4				

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
1 (xv)	Textile Colour Fastness Rating (Overcoats, overalls, Jackets dungaree, flannels and blazer) (Woolen, Silk, Knitted)	BDS 1758:2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	3	
			Colour fastness to Washing (A1)	i) Change in colour	4	BDS ISO 105 C 10:2010 (A1)
				ii) Staining Acetate	3	
				iii) Staining Cotton	3	
				iv) Staining Nylon	3	
				v) Staining Polyester	3	
				vi) Staining Acrylic	3	
				vii) Staining Wool	3	
			Colour fastness to Perspiration	i) Acidic-Change in colour	3	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	3	
				iii) Acidic-Staining Cotton	3	
				iv) Acidic-Staining Nylon	3	
				v) Acidic-Staining Polyester	3	
				vi) Acidic-Staining Acrylic	3	
				vii) Acidic-Staining Wool	3	
				viii) Alkaline-Change in colour	3	
				ix) Alkaline-Staining Acetate	3	
				x) Alkaline-Staining Cotton	3	
				xi) Alkaline-Staining Nylon	3	
				xii) Alkaline-Staining Polyester	3	
				xiii) Alkaline-Staining Acrylic	3	
xiv) Alkaline-Staining Wool	3					
Colour fastness to Dry Cleaning	i) Change in colour	4	BDS ISO 105 D 01:2011			
	ii) Staining Acetate	4				
	iii) Staining Cotton	4				
	iv) Staining Nylon	4				
	v) Staining Polyester	4				
	vi) Staining Acrylic	4				
	vii) Staining Wool	4				

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
1 (xvi)	Textile Colour Fastness Rating (Overcoats, overalls, Jackets dungaree, flannels and blazer) (Manmade and Blended)	BDS 1758:2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	3	
			Colour fastness to Washing (B2)	i) Change in colour	4	BDS ISO 105 C 10:2010 (B2)
				ii) Staining Acetate	3	
				iii) Staining Cotton	3	
				iv) Staining Nylon	3	
				v) Staining Polyester	3	
				vi) Staining Acrylic	3	
				vii) Staining Wool	3	
			Colour fastness to Perspiration	i) Acidic-Change in colour	3	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	3	
				iii) Acidic-Staining Cotton	3	
				iv) Acidic-Staining Nylon	3	
				v) Acidic-Staining Polyester	3	
				vi) Acidic-Staining Acrylic	3	
				vii) Acidic-Staining Wool	3	
				viii) Alkaline-Change in colour	3	
				ix) Alkaline-Staining Acetate	3	
				x) Alkaline-Staining Cotton	3	
				xi) Alkaline-Staining Nylon	3	
				xii) Alkaline-Staining Polyester	3	
				xiii) Alkaline-Staining Acrylic	3	
				xiv) Alkaline-Staining Wool	3	
			Colour fastness to Dry Cleaning	i) Change in colour	4	BDS ISO 105 D 01:2011
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
iv) Staining Nylon	4					
v) Staining Polyester	4					
vi) Staining Acrylic	4					
vii) Staining Wool	4					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
1 (xvii)	Textile Colour Fastness Rating (Mosquito netting) (Woolen, Silk, Knitted)	BDS 1758:2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Washing (B2)	i) Change in colour	4	BDS ISO 105 C 10:2010 (B2)
				ii) Staining Acetate	3	
				iii) Staining Cotton	3	
				iv) Staining Nylon	3	
				v) Staining Polyester	3	
				vi) Staining Acrylic	3	
vii) Staining Wool	3					
1 (xviii)	Textile Colour Fastness Rating (Bed-Linen Fabrics) (Cotton-Woven)	BDS 1758:2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	3	
			Colour fastness to Washing (C3)	i) Change in colour	4	BDS ISO 105 C 10:2010 (C3)
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
				iv) Staining Nylon	4	
				v) Staining Polyester	4	
				vi) Staining Acrylic	4	
				vii) Staining Wool	4	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	3	
				iii) Acidic-Staining Cotton	3	
				iv) Acidic-Staining Nylon	3	
				v) Acidic-Staining Polyester	3	
				vi) Acidic-Staining Acrylic	3	
				vii) Acidic-Staining Wool	3	
				viii) Alkaline-Change in colour	4	
				ix) Alkaline-Staining Acetate	3	
				x) Alkaline-Staining Cotton	3	
xi) Alkaline-Staining Nylon	3					
xii) Alkaline-Staining Polyester	3					
xiii) Alkaline-Staining Acrylic	3					
xiv) Alkaline-Staining Wool	3					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
1 (xix) A	Textile Colour Fastness Rating (Bed-Linen Fabrics) (Woolen, Silk, Knitted)	BDS 1758:2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	3	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	3	
				iii) Acidic-Staining Cotton	3	
				iv) Acidic-Staining Nylon	3	
				v) Acidic-Staining Polyester	3	
				vi) Acidic-Staining Acrylic	3	
				vii) Acidic-Staining Wool	3	
				viii) Alkaline-Change in colour	4	
				ix) Alkaline-Staining Acetate	3	
				x) Alkaline-Staining Cotton	3	
				xi) Alkaline-Staining Nylon	3	
				xii) Alkaline-Staining Polyester	3	
xiii) Alkaline-Staining Acrylic	3					
xiv) Alkaline-Staining Wool	3					
1 (xix) B	Textile Colour Fastness Rating (Bed-Linen Fabrics) (Manmade and Blended)	BDS 1758:2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	3	
			Colour fastness to Washing (B2)	i) Change in colour	4	BDS ISO 105 C 10:2010 (B2)
				ii) Staining Acetate	3	
				iii) Staining Cotton	3	
				iv) Staining Nylon	3	
				v) Staining Polyester	3	
				vi) Staining Acrylic	3	
				vii) Staining Wool	3	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	3	
				iii) Acidic-Staining Cotton	3	
				iv) Acidic-Staining Nylon	3	
				v) Acidic-Staining Polyester	3	
vi) Acidic-Staining Acrylic	3					
vii) Acidic-Staining Wool	3					
viii) Alkaline-Change in colour	4					
ix) Alkaline-Staining Acetate	3					
x) Alkaline-Staining Cotton	3					
xi) Alkaline-Staining Nylon	3					
xii) Alkaline-Staining Polyester	3					
xiii) Alkaline-Staining Acrylic	3					
xiv) Alkaline-Staining Wool	3					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
1 (xx)	Textile Colour Fastness Rating (Yarn) (Cotton)	BDS 1758: 2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	3-4	
			Colour fastness to Washing (C3)	i) Change in colour	4	BDS ISO 105 C 10:2010 (C3)
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
				iv) Staining Nylon	4	
				v) Staining Polyester	4	
				vi) Staining Acrylic	4	
				vii) Staining Wool	4	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4	
				iii) Acidic-Staining Cotton	4	
				iv) Acidic-Staining Nylon	4	
				v) Acidic-Staining Polyester	4	
				vi) Acidic-Staining Acrylic	4	
				vii) Acidic-Staining Wool	4	
				viii) Alkaline-Change in colour	4	
				ix) Alkaline-Staining Acetate	4	
				x) Alkaline-Staining Cotton	4	
				xi) Alkaline-Staining Nylon	4	
				xii) Alkaline-Staining Polyester	4	
				xiii) Alkaline-Staining Acrylic	4	
xiv) Alkaline-Staining Wool	4					
Colour fastness to Dry Cleaning	i) Change in colour	4	BDS ISO 105 D 01:2011			
	ii) Staining Acetate	4				
	iii) Staining Cotton	4				
	iv) Staining Nylon	4				
	v) Staining Polyester	4				
	vi) Staining Acrylic	4				
	vii) Staining Wool	4				

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
1 (xxi)	Textile Colour Fastness Rating (Yarn) (Manmade and Blended)	BDS 1758: 2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	3-4	
			Colour fastness to Washing (B2)	i) Change in colour	4	BDS ISO 105 C 10:2010 (B2)
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
				iv) Staining Nylon	4	
				v) Staining Polyester	4	
				vi) Staining Acrylic	4	
				vii) Staining Wool	4	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4	
				iii) Acidic-Staining Cotton	4	
				iv) Acidic-Staining Nylon	4	
				v) Acidic-Staining Polyester	4	
				vi) Acidic-Staining Acrylic	4	
				vii) Acidic-Staining Wool	4	
				viii) Alkaline-Change in colour	4	
				ix) Alkaline-Staining Acetate	4	
				x) Alkaline-Staining Cotton	4	
				xi) Alkaline-Staining Nylon	4	
				xii) Alkaline-Staining Polyester	4	
				xiii) Alkaline-Staining Acrylic	4	
xiv) Alkaline-Staining Wool	4					
Colour fastness to Dry Cleaning	i) Change in colour	4	BDS ISO 105 D 01:2011			
	ii) Staining Acetate	4				
	iii) Staining Cotton	4				
	iv) Staining Nylon	4				
	v) Staining Polyester	4				
	vi) Staining Acrylic	4				
	vii) Staining Wool	4				

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
1 (xxii)	Textile Colour Fastness Rating (Yarn) (woollen, silk and all materials except-Cotton, Manmade and Blended)	BDS 1758: 2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	3-4	
			Colour fastness to Washing (A1)	i) Change in colour	4	BDS ISO 105 C 10:2010 (A1)
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
				iv) Staining Nylon	4	
				v) Staining Polyester	4	
				vi) Staining Acrylic	4	
				vii) Staining Wool	4	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4	
				iii) Acidic-Staining Cotton	4	
				iv) Acidic-Staining Nylon	4	
				v) Acidic-Staining Polyester	4	
				vi) Acidic-Staining Acrylic	4	
				vii) Acidic-Staining Wool	4	
				viii) Alkaline-Change in colour	4	
				ix) Alkaline-Staining Acetate	4	
				x) Alkaline-Staining Cotton	4	
				xi) Alkaline-Staining Nylon	4	
				xii) Alkaline-Staining Polyester	4	
				xiii) Alkaline-Staining Acrylic	4	
				xiv) Alkaline-Staining Wool	4	
			Colour fastness to Dry Cleaning	i) Change in colour	4	BDS ISO 105 D 01:2011
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
iv) Staining Nylon	4					
v) Staining Polyester	4					
vi) Staining Acrylic	4					
vii) Staining Wool	4					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
1 (xxiii)	Textile Colour Fastness Rating (Sewing threads and embroidery yarn) (Cotton)	BDS 1758: 2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	4	
			Colour fastness to Washing (C3)	i) Change in colour	4	BDS ISO 105 C 10:2010 (C3)
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
				iv) Staining Nylon	4	
				v) Staining Polyester	4	
				vi) Staining Acrylic	4	
				vii) Staining Wool	4	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4	
				iii) Acidic-Staining Cotton	4	
				iv) Acidic-Staining Nylon	4	
				v) Acidic-Staining Polyester	4	
				vi) Acidic-Staining Acrylic	4	
				vii) Acidic-Staining Wool	4	
				viii) Alkaline-Change in colour	4	
				ix) Alkaline-Staining Acetate	4	
				x) Alkaline-Staining Cotton	4	
				xi) Alkaline-Staining Nylon	4	
				xii) Alkaline-Staining Polyester	4	
				xiii) Alkaline-Staining Acrylic	4	
				xiv) Alkaline-Staining Wool	4	
			Colour fastness to Dry Cleaning	i) Change in colour	4	BDS ISO 105 D 01:2011
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
				iv) Staining Nylon	4	
				v) Staining Polyester	4	
				vi) Staining Acrylic	4	
				vii) Staining Wool	4	

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
1 (xxiv)	Textile Colour Fastness Rating (Sewing threads and embroidery yarn) (Manmade and Blended)	BDS 1758: 2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	4	
			Colour fastness to Washing (B2)	i) Change in colour	4	BDS ISO 105 C 10:2010 (B2)
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
				iv) Staining Nylon	4	
				v) Staining Polyester	4	
				vi) Staining Acrylic	4	
				vii) Staining Wool	4	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4	
				iii) Acidic-Staining Cotton	4	
				iv) Acidic-Staining Nylon	4	
				v) Acidic-Staining Polyester	4	
				vi) Acidic-Staining Acrylic	4	
				vii) Acidic-Staining Wool	4	
				viii) Alkaline-Change in colour	4	
				ix) Alkaline-Staining Acetate	4	
				x) Alkaline-Staining Cotton	4	
				xi) Alkaline-Staining Nylon	4	
				xii) Alkaline-Staining Polyester	4	
				xiii) Alkaline-Staining Acrylic	4	
				xiv) Alkaline-Staining Wool	4	
			Colour fastness to Dry Cleaning	i) Change in colour	4	BDS ISO 105 D 01:2011
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
iv) Staining Nylon	4					
v) Staining Polyester	4					
vi) Staining Acrylic	4					
vii) Staining Wool	4					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
1 (xxv)	Textile Colour Fastness Rating (Sewing threads and embroidery yarn) (woollen, silk and all materials except-Cotton, Manmade and Blended)	BDS 1758: 2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	4	
			Colour fastness to Washing (A1)	i) Change in colour	4	BDS ISO 105 C 10:2010 (A1)
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
				iv) Staining Nylon	4	
				v) Staining Polyester	4	
				vi) Staining Acrylic	4	
				vii) Staining Wool	4	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4	
				iii) Acidic-Staining Cotton	4	
				iv) Acidic-Staining Nylon	4	
				v) Acidic-Staining Polyester	4	
				vi) Acidic-Staining Acrylic	4	
				vii) Acidic-Staining Wool	4	
				viii) Alkaline-Change in colour	4	
				ix) Alkaline-Staining Acetate	4	
				x) Alkaline-Staining Cotton	4	
				xi) Alkaline-Staining Nylon	4	
				xii) Alkaline-Staining Polyester	4	
				xiii) Alkaline-Staining Acrylic	4	
				xiv) Alkaline-Staining Wool	4	
			Colour fastness to Dry Cleaning	i) Change in colour	4	BDS ISO 105 D 01:2011
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
iv) Staining Nylon	4					
v) Staining Polyester	4					
vi) Staining Acrylic	4					
vii) Staining Wool	4					
			Material Composition of fibre-Percentage of Polyester		*-text field-*	BDS ISO 1833 - 24:2017
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
1 (xxvi)	Textile Colour Fastness Rating (Bunting cloth)	BDS 1758: 2022	Colour fastness test to Light (Sunlight)		5 or better	BDS ISO 105 B01:2003
			Colour fastness to Washing (A1)	i) Change in colour	4	BDS ISO 105 C 10:2010 (A1)
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
				iv) Staining Nylon	4	
				v) Staining Polyester	4	
				vi) Staining Acrylic	4	
				vii) Staining Wool	4	
1 (xxvii)	Textile Colour Fastness Rating (Buckram cloth)	BDS 1758: 2022	Colour fastness to Washing (A1)	i) Change in colour	4	BDS ISO 105 C 10:2010 (A1)
				ii) Staining Acetate	4	
				iii) Staining Cotton	4	
				iv) Staining Nylon	4	
				v) Staining Polyester	4	
				vi) Staining Acrylic	4	
				vii) Staining Wool	4	
1 (xxviii)	Textile Colour Fastness Rating (Holland cloth)	BDS 1758: 2022	Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Washing (D4)	i) Change in colour	3	BDS ISO 105 C 10:2010 (D4)
				ii) Staining Acetate	3	
				iii) Staining Cotton	3	
				iv) Staining Nylon	3	
				v) Staining Polyester	3	
				vi) Staining Acrylic	3	
				vii) Staining Wool	3	
2 (i)	Industrial Sewing Thread (Continuous Filament Polyester Threads)- Coloured	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: ± 10%)	*-text field-*	BDS ISO 2060:1998
			Material Composition of fibre- Percentage of Polyester		*-text field-*	BDS ISO 1833 - 24:2017
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
			Colour fastness to Laundering (A2S)	i) Change in colour	4 or better	BDS ISO 105 C 06:2009 (A2S)
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
				vi) Staining Acrylic	4 or better	
				vii) Staining Wool	4 or better	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4 or better	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4 or better	
				iii) Acidic-Staining Cotton	4 or better	
				iv) Acidic-Staining Nylon	4 or better	
				v) Acidic-Staining Polyester	4 or better	
				vi) Acidic-Staining Acrylic	4 or better	
				vii) Acidic-Staining Wool	4 or better	
				viii) Alkaline-Change in colour	4 or better	
				ix) Alkaline-Staining Acetate	4 or better	
				x) Alkaline-Staining Cotton	4 or better	
				xi) Alkaline-Staining Nylon	4 or better	
				xii) Alkaline-Staining Polyester	4 or better	
				xiii) Alkaline-Staining Acrylic	4 or better	
				xiv) Alkaline-Staining Wool	4 or better	
			Colour fastness to Dry Cleaning	i) Change in colour	4 or better	BDS ISO 105 D 01:2011
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
				vi) Staining Acrylic	4 or better	
				vii) Staining Wool	4 or better	
Colour fastness to Rubbing/Crocking	a) Dry rub-	4 or better	BDS ISO 105 X 12:2017			
	b) Wet rub-	4 or better				

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
2 (ii)	Industrial Sewing Thread (Continuous Filament Polyester Threads)- White	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: $\pm 10\%$)	*-text field-*	BDS ISO 2060:1998
			Material Composition of fibre-Percentage of Polyester		*-text field-*	BDS ISO 1833 - 24:2017
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
2 (iii)	Industrial Sewing Thread (Staple Fibre Polyester Threads)- Coloured	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: $\pm 10\%$)	*-text field-*	BDS ISO 2060:1998
			Material Composition of fibre- Percentage of Polyester		*-text field-*	BDS ISO 1833 - 24:2017
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Laundering (A2S)	i) Change in colour	4 or better	BDS ISO 105 C 06:2009 (A2S)
				ii) Staining Acetate	4 or better	
iii) Staining Cotton	4 or better					
iv) Staining Nylon	4 or better					
v) Staining Polyester	4 or better					
vi) Staining Acrylic	4 or better					
vii) Staining Wool	4 or better					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
			Colour fastness to Perspiration	i) Acidic-Change in colour	4 or better	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4 or better	
				iii) Acidic-Staining Cotton	4 or better	
				iv) Acidic-Staining Nylon	4 or better	
				v) Acidic-Staining Polyester	4 or better	
				vi) Acidic-Staining Acrylic	4 or better	
				vii) Acidic-Staining Wool	4 or better	
				viii) Alkaline-Change in colour	4 or better	
				ix) Alkaline-Staining Acetate	4 or better	
				x) Alkaline-Staining Cotton	4 or better	
				xi) Alkaline-Staining Nylon	4 or better	
				xii) Alkaline-Staining Polyester	4 or better	
				xiii) Alkaline-Staining Acrylic	4 or better	
				xiv) Alkaline-Staining Wool	4 or better	
			Colour fastness to Dry Cleaning	i) Change in colour	4 or better	BDS ISO 105 D 01:2011
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
				vi) Staining Acrylic	4 or better	
				vii) Staining Wool	4 or better	
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4 or better	BDS ISO 105 X 12:2017
				b) Wet rub-	4 or better	
			2 (iv)	Industrial Sewing Thread (Staple Fibre Polyester Threads)- White	BDS 1221 : 2011	Total Length of yarn in package in meter
Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*				BDS ISO 2062:2014
No. of plies (Yarn/ Thread)		2 or more				BDS 1221 : 2011
Twist of yarn- Direct counting method	a) Direction of Twist	Z				BDS ISO 2061:2011
Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: ± 10%)	*-text field-*				BDS ISO 2060:1998
Material Composition of fibre-Percentage of Polyester		*-text field-*				BDS ISO 1833 - 24:2017
Shrinkage of yarn in percentage		Less than 2%				BDS 1221 : 2011

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
2 (v)	Industrial Sewing Thread (Air-Jet Textured Polyester Threads)- Coloured	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: \pm 10%)	*-text field-*	BDS ISO 2060:1998
			Material Composition of fibre- Percentage of Polyester		*-text field-*	BDS ISO 1833 - 24:2017
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Laundering (A2S)	i) Change in colour	4 or better	BDS ISO 105 C 06:2009 (A2S)
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
				vi) Staining Acrylic	4 or better	
				vii) Staining Wool	4 or better	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4 or better	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4 or better	
				iii) Acidic-Staining Cotton	4 or better	
				iv) Acidic-Staining Nylon	4 or better	
				v) Acidic-Staining Polyester	4 or better	
				vi) Acidic-Staining Acrylic	4 or better	
				vii) Acidic-Staining Wool	4 or better	
				viii) Alkaline-Change in colour	4 or better	
				ix) Alkaline-Staining Acetate	4 or better	
				x) Alkaline-Staining Cotton	4 or better	
				xi) Alkaline-Staining Nylon	4 or better	
				xii) Alkaline-Staining Polyester	4 or better	
xiii) Alkaline-Staining Acrylic	4 or better					
xiv) Alkaline-Staining Wool	4 or better					
Colour fastness to Dry Cleaning	i) Change in colour	4 or better	BDS ISO 105 D 01:2011			
	ii) Staining Acetate	4 or better				
	iii) Staining Cotton	4 or better				
	iv) Staining Nylon	4 or better				
	v) Staining Polyester	4 or better				
	vi) Staining Acrylic	4 or better				
	vii) Staining Wool	4 or better				
Colour fastness to Rubbing/Crocking	a) Dry rub-	4 or better	BDS ISO 105 X 12:2017			
	b) Wet rub-	4 or better				

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
2 (vi)	Industrial Sewing Thread (Air-Jet Textured Polyester Threads)- White	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: \pm 10%)	*-text field-*	BDS ISO 2060:1998
			Material Composition of fibre-Percentage of Polyester		*-text field-*	BDS ISO 1833 - 24:2017
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
2 (vii)	Industrial Sewing Thread (False Twist Textured Polyester Threads)- Coloured	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: \pm 10%)	*-text field-*	BDS ISO 2060:1998
			Material Composition of fibre- Percentage of Polyester		*-text field-*	BDS ISO 1833 - 24:2017
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Laundering (A2S)	i) Change in colour	4 or better	BDS ISO 105 C 06:2009 (A2S)
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
v) Staining Polyester	4 or better					
vi) Staining Acrylic	4 or better					
vii) Staining Wool	4 or better					
2 (viii)	Industrial Sewing Thread (False Twist Textured Polyester Threads)- White	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: \pm 10%)	*-text field-*	BDS ISO 2060:1998
			Material Composition of fibre- Percentage of Polyester		*-text field-*	BDS ISO 1833 - 24:2017

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
2 (ix)	Industrial Sewing Thread (Polyester-Cotton Corespun Threads)- Coloured	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: $\pm 10\%$)	*-text field-*	BDS ISO 2060:1998
			Material Composition of fibre- Percentage of Polyester		*-text field-*	BDS ISO 1833 - 24:2017
			Material Composition of fibre-Percentage of Cellulose(Cotton)		*-text field-*	BDS ISO 1833 - 11:2012
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Laundering (A2S)	i) Change in colour	4 or better	BDS ISO 105 C 06:2009 (A2S)
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
				vi) Staining Acrylic	4 or better	
				vii) Staining Wool	4 or better	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4 or better	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4 or better	
				iii) Acidic-Staining Cotton	4 or better	
				iv) Acidic-Staining Nylon	4 or better	
v) Acidic-Staining Polyester	4 or better					
vi) Acidic-Staining Acrylic	4 or better					
vii) Acidic-Staining Wool	4 or better					
viii) Alkaline-Change in colour	4 or better					
ix) Alkaline-Staining Acetate	4 or better					
x) Alkaline-Staining Cotton	4 or better					
xi) Alkaline-Staining Nylon	4 or better					
xii) Alkaline-Staining Polyester	4 or better					
xiii) Alkaline-Staining Acrylic	4 or better					
xiv) Alkaline-Staining Wool	4 or better					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
			Colour fastness to Dry Cleaning	i) Change in colour	4 or better	BDS ISO 105 D 01:2011
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
				vi) Staining Acrylic	4 or better	
				vii) Staining Wool	4 or better	
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4 or better	BDS ISO 105 X 12:2017
				b) Wet rub-	4 or better	
2 (x)	Industrial Sewing Thread (Polyester-Cotton Corespun Threads)-White	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: $\pm 10\%$)	*-text field-*	BDS ISO 2060:1998
			Material Composition of fibre- Percentage of Polyester		*-text field-*	BDS ISO 1833 - 24:2017
			Material Composition of fibre-Percentage of Cellulose(Cotton)		*-text field-*	BDS ISO 1833 - 11:2012
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
2 (xi)	Industrial Sewing Thread (Polyester-Polyester Corespun Threads)-Coloured	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: $\pm 10\%$)	*-text field-*	BDS ISO 2060:1998
			Material Composition of fibre-Percentage of Polyester		*-text field-*	BDS ISO 1833 - 24:2017
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method			
			Colour fastness to Laundering (A2S)	i) Change in colour	4 or better	BDS ISO 105 C 06:2009 (A2S)			
				ii) Staining Acetate	4 or better				
				iii) Staining Cotton	4 or better				
				iv) Staining Nylon	4 or better				
				v) Staining Polyester	4 or better				
				vi) Staining Acrylic	4 or better				
				vii) Staining Wool	4 or better				
			Colour fastness to Perspiration	i) Acidic-Change in colour	4 or better	BDS ISO 105 E 04:2016			
				ii) Acidic-Staining Acetate	4 or better				
				iii) Acidic-Staining Cotton	4 or better				
				iv) Acidic-Staining Nylon	4 or better				
				v) Acidic-Staining Polyester	4 or better				
				vi) Acidic-Staining Acrylic	4 or better				
				vii) Acidic-Staining Wool	4 or better				
				viii) Alkaline-Change in colour	4 or better				
				ix) Alkaline-Staining Acetate	4 or better				
				x) Alkaline-Staining Cotton	4 or better				
				xi) Alkaline-Staining Nylon	4 or better				
				xii) Alkaline-Staining Polyester	4 or better				
				xiii) Alkaline-Staining Acrylic	4 or better				
				xiv) Alkaline-Staining Wool	4 or better				
			Colour fastness to Dry Cleaning	i) Change in colour	4 or better	BDS ISO 105 D 01:2011			
				ii) Staining Acetate	4 or better				
				iii) Staining Cotton	4 or better				
				iv) Staining Nylon	4 or better				
				v) Staining Polyester	4 or better				
				vi) Staining Acrylic	4 or better				
				vii) Staining Wool	4 or better				
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4 or better	BDS ISO 105 X 12:2017			
				b) Wet rub-	4 or better				
			2 (xii)	Industrial Sewing Thread (Polyester-Polyester Coespun Threads)- White	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
						Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
						No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
Twist of yarn- Direct counting method	a) Direction of Twist	Z				BDS ISO 2061:2011			

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: $\pm 10\%$)	*-text field-*	BDS ISO 2060:1998
			Material Composition of fibre- Percentage of Polyester		*-text field-*	BDS ISO 1833 - 24:2017
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
2 (xiii)	Industrial Sewing Thread (Continuous Filament Nylon / Polyamide 6.6 Threads)- Coloured	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: $\pm 10\%$)	*-text field-*	BDS ISO 2060:1998
			Material Composition of fibre- Percentage of Polyamide(Nylon)		*-text field-*	BDS ISO 1833 - 7:2019
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Laundering (A2S)	i) Change in colour	4 or better	BDS ISO 105 C 06:2009 (A2S)
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
				vi) Staining Acrylic	4 or better	
vii) Staining Wool	4 or better					
Colour fastness to Perspiration	i) Acidic-Change in colour	4 or better	BDS ISO 105 E 04:2016			
	ii) Acidic-Staining Acetate	4 or better				
	iii) Acidic-Staining Cotton	4 or better				
	iv) Acidic-Staining Nylon	4 or better				
	v) Acidic-Staining Polyester	4 or better				
	vi) Acidic-Staining Acrylic	4 or better				
	vii) Acidic-Staining Wool	4 or better				
	viii) Alkaline-Change in colour	4 or better				
	ix) Alkaline-Staining Acetate	4 or better				
	x) Alkaline-Staining Cotton	4 or better				
	xi) Alkaline-Staining Nylon	4 or better				
	xii) Alkaline-Staining Polyester	4 or better				
	xiii) Alkaline-Staining Acrylic	4 or better				
	xiv) Alkaline-Staining Wool	4 or better				

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
			Colour fastness to Dry Cleaning	i) Change in colour	4 or better	BDS ISO 105 D 01:2011
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
				vi) Staining Acrylic	4 or better	
				vii) Staining Wool	4 or better	
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4 or better	BDS ISO 105 X 12:2017
				b) Wet rub-	4 or better	
2 (xiv)	Industrial Sewing Thread (Continuous Filament Nylon / Polyamide 6.6 Threads)- White	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: ± 10%)	*-text field-*	BDS ISO 2060:1998
			Material Composition of fibre- Percentage of Polyamide(Nylon)		*-text field-*	BDS ISO 1833 - 7:2019
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
2 (xv)	Industrial Sewing Thread (False Twist Textured Nylon / Polyamide 6.6 Threads)- Coloured	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: ± 10%)	*-text field-*	BDS ISO 2060:1998
			Material Composition of fibre-Percentage of Polyamide(Nylon)		*-text field-*	BDS ISO 1833 - 7:2019
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Laundering (A2S)	i) Change in colour	4 or better	BDS ISO 105 C 06:2009 (A2S)
				ii) Staining Acetate	4 or better	
iii) Staining Cotton	4 or better					
iv) Staining Nylon	4 or better					
v) Staining Polyester	4 or better					
vi) Staining Acrylic	4 or better					
vii) Staining Wool	4 or better					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
			Colour fastness to Perspiration	i) Acidic-Change in colour	4 or better	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4 or better	
				iii) Acidic-Staining Cotton	4 or better	
				iv) Acidic-Staining Nylon	4 or better	
				v) Acidic-Staining Polyester	4 or better	
				vi) Acidic-Staining Acrylic	4 or better	
				vii) Acidic-Staining Wool	4 or better	
				viii) Alkaline-Change in colour	4 or better	
				ix) Alkaline-Staining Acetate	4 or better	
				x) Alkaline-Staining Cotton	4 or better	
				xi) Alkaline-Staining Nylon	4 or better	
				xii) Alkaline-Staining Polyester	4 or better	
				xiii) Alkaline-Staining Acrylic	4 or better	
				xiv) Alkaline-Staining Wool	4 or better	
			Colour fastness to Dry Cleaning	i) Change in colour	4 or better	BDS ISO 105 D 01:2011
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
				vi) Staining Acrylic	4 or better	
				vii) Staining Wool	4 or better	
Colour fastness to Rubbing/Crocking	a) Dry rub-	4 or better	BDS ISO 105 X 12:2017			
	b) Wet rub-	4 or better				

2 (xvi)	Industrial Sewing Thread (False Twist Textured Nylon / Polyamide 6.6 Threads)- White	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: $\pm 10\%$)	*-text field-*	BDS ISO 2060:1998
			Material Composition of fibre-Percentage of Polyamide(Nylon)		*-text field-*	BDS ISO 1833 - 7:2019
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
2 (xvii)	Industrial Sewing Thread (Continuous Filament Para-Aramid Threads)-Coloured	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: $\pm 10\%$)	*-text field-*	BDS ISO 2060:1998
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Laundering (A2S)	i) Change in colour	4 or better	BDS ISO 105 C 06:2009 (A2S)
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
				vi) Staining Acrylic	4 or better	
				vii) Staining Wool	4 or better	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4 or better	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4 or better	
				iii) Acidic-Staining Cotton	4 or better	
				iv) Acidic-Staining Nylon	4 or better	
				v) Acidic-Staining Polyester	4 or better	
				vi) Acidic-Staining Acrylic	4 or better	
				vii) Acidic-Staining Wool	4 or better	
				viii) Alkaline-Change in colour	4 or better	
				ix) Alkaline-Staining Acetate	4 or better	
				x) Alkaline-Staining Cotton	4 or better	
xi) Alkaline-Staining Nylon	4 or better					
xii) Alkaline-Staining Polyester	4 or better					
xiii) Alkaline-Staining Acrylic	4 or better					
xiv) Alkaline-Staining Wool	4 or better					
Colour fastness to Dry Cleaning	i) Change in colour	4 or better	BDS ISO 105 D 01:2011			
	ii) Staining Acetate	4 or better				
	iii) Staining Cotton	4 or better				
	iv) Staining Nylon	4 or better				
	v) Staining Polyester	4 or better				
	vi) Staining Acrylic	4 or better				
	vii) Staining Wool	4 or better				

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
2 (xviii)	Industrial Sewing Thread (Continuous Filament Para-Aramid Threads)-White	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: ± 10%)	*-text field-*	BDS ISO 2060:1998
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
2 (xix)	Industrial Sewing Thread (Staple Fibre Para-Aramid Threads)-Coloured	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: ± 10%)	*-text field-*	BDS ISO 2060:1998
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Laundering (A2S)	i) Change in colour	4 or better	BDS ISO 105 C 06:2009 (A2S)
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
				vi) Staining Acrylic	4 or better	
				vii) Staining Wool	4 or better	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4 or better	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4 or better	
				iii) Acidic-Staining Cotton	4 or better	
				iv) Acidic-Staining Nylon	4 or better	
				v) Acidic-Staining Polyester	4 or better	
				vi) Acidic-Staining Acrylic	4 or better	
vii) Acidic-Staining Wool	4 or better					
viii) Alkaline-Change in colour	4 or better					
ix) Alkaline-Staining Acetate	4 or better					
x) Alkaline-Staining Cotton	4 or better					
xi) Alkaline-Staining Nylon	4 or better					
xii) Alkaline-Staining Polyester	4 or better					
xiii) Alkaline-Staining Acrylic	4 or better					
xiv) Alkaline-Staining Wool	4 or better					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
			Colour fastness to Dry Cleaning	i) Change in colour	4 or better	BDS ISO 105 D 01:2011
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
				vi) Staining Acrylic	4 or better	
				vii) Staining Wool	4 or better	
			Colour fastness to Rubbing/Crocking	a) Dry rub- b) Wet rub-	4 or better 4 or better	BDS ISO 105 X 12:2017
2 (xx)	Industrial Sewing Thread (Staple Fibre Para-Aramid Threads)-White	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: \pm 10%)	*-text field-*	BDS ISO 2060:1998
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
2 (xxi)	Industrial Sewing Thread (Continuous Filament Meta-Aramid Threads)-Coloured	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: \pm 10%)	*-text field-*	BDS ISO 2060:1998
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Laundering (A2S)	i) Change in colour	4 or better	BDS ISO 105 C 06:2009 (A2S)
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
vi) Staining Acrylic	4 or better					
vii) Staining Wool	4 or better					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
			Colour fastness to Perspiration	i) Acidic-Change in colour	4 or better	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4 or better	
				iii) Acidic-Staining Cotton	4 or better	
				iv) Acidic-Staining Nylon	4 or better	
				v) Acidic-Staining Polyester	4 or better	
				vi) Acidic-Staining Acrylic	4 or better	
				vii) Acidic-Staining Wool	4 or better	
				viii) Alkaline-Change in colour	4 or better	
				ix) Alkaline-Staining Acetate	4 or better	
				x) Alkaline-Staining Cotton	4 or better	
				xi) Alkaline-Staining Nylon	4 or better	
				xii) Alkaline-Staining Polyester	4 or better	
				xiii) Alkaline-Staining Acrylic	4 or better	
				xiv) Alkaline-Staining Wool	4 or better	
			Colour fastness to Dry Cleaning	i) Change in colour	4 or better	BDS ISO 105 D 01:2011
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
				vi) Staining Acrylic	4 or better	
				vii) Staining Wool	4 or better	
Colour fastness to Rubbing/Crocking	a) Dry rub-	4 or better	BDS ISO 105 X 12:2017			
	b) Wet rub-	4 or better				
2 (xxii)	Industrial Sewing Thread (Continuous Filament Meta-Aramid Threads)-White	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: $\pm 10\%$)	*-text field-*	BDS ISO 2060:1998
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
2 (xxiii)	Industrial Sewing Thread (Staple Fibre Meta-Aramid Threads)-Coloured	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: ± 10%)	*-text field-*	BDS ISO 2060:1998
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Laundering (A2S)	i) Change in colour	4 or better	BDS ISO 105 C 06:2009 (A2S)
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
				vi) Staining Acrylic	4 or better	
				vii) Staining Wool	4 or better	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4 or better	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4 or better	
				iii) Acidic-Staining Cotton	4 or better	
				iv) Acidic-Staining Nylon	4 or better	
				v) Acidic-Staining Polyester	4 or better	
				vi) Acidic-Staining Acrylic	4 or better	
				vii) Acidic-Staining Wool	4 or better	
				viii) Alkaline-Change in colour	4 or better	
				ix) Alkaline-Staining Acetate	4 or better	
				x) Alkaline-Staining Cotton	4 or better	
				xi) Alkaline-Staining Nylon	4 or better	
				xii) Alkaline-Staining Polyester	4 or better	
				xiii) Alkaline-Staining Acrylic	4 or better	
xiv) Alkaline-Staining Wool	4 or better					
Colour fastness to Dry Cleaning	i) Change in colour	4 or better	BDS ISO 105 D 01:2011			
	ii) Staining Acetate	4 or better				
	iii) Staining Cotton	4 or better				
	iv) Staining Nylon	4 or better				
	v) Staining Polyester	4 or better				
	vi) Staining Acrylic	4 or better				
	vii) Staining Wool	4 or better				
Colour fastness to Rubbing/Crocking	a) Dry rub-	4 or better	BDS ISO 105 X 12:2017			
	b) Wet rub-	4 or better				

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
2 (xxiv)	Industrial Sewing Thread (Staple Fibre Meta-Aramid Threads)-White	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: \pm 10%)	*-text field-*	BDS ISO 2060:1998
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
2 (xxv)	Industrial Sewing Thread (Continious Filament Polyester Braids)-Coloured	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: \pm 10%)	*-text field-*	BDS ISO 2060:1998
			Material Composition of fibre- Percentage of Polyester		*-text field-*	BDS ISO 1833 - 24:2017
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Laundering (A2S)	i) Change in colour	4 or better	BDS ISO 105 C 06:2009 (A2S)
				ii) Staining Acetate	4 or better	
iii) Staining Cotton	4 or better					
iv) Staining Nylon	4 or better					
v) Staining Polyester	4 or better					
vi) Staining Acrylic	4 or better					
vii) Staining Wool	4 or better					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
			Colour fastness to Perspiration	i) Acidic-Change in colour	4 or better	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4 or better	
				iii) Acidic-Staining Cotton	4 or better	
				iv) Acidic-Staining Nylon	4 or better	
				v) Acidic-Staining Polyester	4 or better	
				vi) Acidic-Staining Acrylic	4 or better	
				vii) Acidic-Staining Wool	4 or better	
				viii) Alkaline-Change in colour	4 or better	
				ix) Alkaline-Staining Acetate	4 or better	
				x) Alkaline-Staining Cotton	4 or better	
				xi) Alkaline-Staining Nylon	4 or better	
				xii) Alkaline-Staining Polyester	4 or better	
				xiii) Alkaline-Staining Acrylic	4 or better	
				xiv) Alkaline-Staining Wool	4 or better	
			Colour fastness to Dry Cleaning	i) Change in colour	4 or better	BDS ISO 105 D 01:2011
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
				vi) Staining Acrylic	4 or better	
				vii) Staining Wool	4 or better	
Colour fastness to Rubbing/Crocking	a) Dry rub-	4 or better	BDS ISO 105 X 12:2017			
	b) Wet rub-	4 or better				
2 (xxvi)	Industrial Sewing Thread (Continuous Filament Polyester Braids)- White	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: ± 10%)	*-text field-*	BDS ISO 2060:1998
			Material Composition of fibre-Percentage of Polyester		*-text field-*	BDS ISO 1833 - 24:2017
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
2 (xxvii)	Industrial Sewing Thread (Staple Fibre Polyester Braids)- Coloured	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: \pm 10%)	*-text field-*	BDS ISO 2060:1998
			Material Composition of fibre-Percentage of Polyester		*-text field-*	BDS ISO 1833 - 24:2017
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Laundering (A2S)	i) Change in colour	4 or better	BDS ISO 105 C 06:2009 (A2S)
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
				vi) Staining Acrylic	4 or better	
				vii) Staining Wool	4 or better	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4 or better	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4 or better	
				iii) Acidic-Staining Cotton	4 or better	
				iv) Acidic-Staining Nylon	4 or better	
				v) Acidic-Staining Polyester	4 or better	
vi) Acidic-Staining Acrylic	4 or better					
vii) Acidic-Staining Wool	4 or better					
viii) Alkaline-Change in colour	4 or better					
ix) Alkaline-Staining Acetate	4 or better					
x) Alkaline-Staining Cotton	4 or better					
xi) Alkaline-Staining Nylon	4 or better					
xii) Alkaline-Staining Polyester	4 or better					
xiii) Alkaline-Staining Acrylic	4 or better					
xiv) Alkaline-Staining Wool	4 or better					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
			Colour fastness to Dry Cleaning	i) Change in colour	4 or better	BDS ISO 105 D 01:2011
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
				vi) Staining Acrylic	4 or better	
				vii) Staining Wool	4 or better	
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4 or better	BDS ISO 105 X 12:2017
				b) Wet rub-	4 or better	
2 (xxviii)	Industrial Sewing Thread (Staple Fibre Polyester Braids)- White	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: $\pm 10\%$)	*-text field-*	BDS ISO 2060:1998
			Material Composition of fibre-Percentage of Polyester		*-text field-*	BDS ISO 1833 - 24:2017
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
2 (xxix)	Industrial Sewing Thread (Continuous Filament Nylon / Polyamide 6.6 Braids)- Coloured	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: $\pm 10\%$)	*-text field-*	BDS ISO 2060:1998
			Material Composition of fibre-Percentage of Polyamide(Nylon)		*-text field-*	BDS ISO 1833 - 7:2019

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Laundering (A2S)	i) Change in colour	4 or better	BDS ISO 105 C 06:2009 (A2S)
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
				vi) Staining Acrylic	4 or better	
				vii) Staining Wool	4 or better	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4 or better	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4 or better	
				iii) Acidic-Staining Cotton	4 or better	
				iv) Acidic-Staining Nylon	4 or better	
				v) Acidic-Staining Polyester	4 or better	
				vi) Acidic-Staining Acrylic	4 or better	
				vii) Acidic-Staining Wool	4 or better	
				viii) Alkaline-Change in colour	4 or better	
				ix) Alkaline-Staining Acetate	4 or better	
				x) Alkaline-Staining Cotton	4 or better	
				xi) Alkaline-Staining Nylon	4 or better	
				xii) Alkaline-Staining Polyester	4 or better	
				xiii) Alkaline-Staining Acrylic	4 or better	
				xiv) Alkaline-Staining Wool	4 or better	
			Colour fastness to Dry Cleaning	i) Change in colour	4 or better	BDS ISO 105 D 01:2011
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
				vi) Staining Acrylic	4 or better	
				vii) Staining Wool	4 or better	
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4 or better	BDS ISO 105 X 12:2017
				b) Wet rub-	4 or better	

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
2 (xxx)	Industrial Sewing Thread (Continuous Filament Nylon / Polyamide 6.6 Braids)- White	BDS 1221 : 2011	Total Length of yarn in package in meter	Length in meter (Tolerance: not less than 1%)	*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn	Breaking Force of sewing thread on 25 cm Length in Newton	*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		2 or more	BDS 1221 : 2011
			Twist of yarn- Direct counting method	a) Direction of Twist	Z	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method	Linear density of yarn in Tex (Tolerance: $\pm 10\%$)	*-text field-*	BDS ISO 2060:1998
			Material Composition of fibre-Percentage of Polyamide(Nylon)		*-text field-*	BDS ISO 1833 - 7:2019
			Shrinkage of yarn in percentage		Less than 2%	BDS 1221 : 2011
3 (i)	Woven Shirting made of Polyester or polyester Blends - Coloured (Machine Wash)	BDS 1148: 2021	Width of fabric	Width in cm (Tolerance: ± 1 cm)	*-text field-*	BDS ISO 22198:2009
			GSM (Weight per unit area or length)	Gram / square Meter (Tolerance: -2.5% to +5%)	*-text field-*	BDS ISO 3801:2010
			Tensile Strength (Strip strength) -Breaking load on (5 \times 20) cm strips in Newton	a) Warp way-	Minimum 350 N	BDS ISO 13934- 1:2020
				b) Weft way-	Minimum 300 N	
			Material Composition of fibre- Percentage of Polyester		[Polyester 100%]or, [Polyester not less than 48% and not more than 80%]	BDS ISO 1833 - 24:2017
			Dimensional Stability to machine Washing/ Laundering -Fabric Shrinkage(Wash- 4N)	a) Warp way-	Maximum 2%	(Wash-4N, Machine type-A) BDS ISO 6330:2020, BDS ISO 3759:2019, BDS ISO 5077:2008
				b) Weft way-	Maximum 2%	
			pH of aqueous extract		6.00 to 8.00	BDS ISO 3071:2006
Pilling resistance (Pill Box method) (Up to 5 hrs/18000 revs)		4 or better	BDS ISO 12945- 1:2009			

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Washing (B2)	i) Change in colour	4 or better	BDS ISO 105 C 10:2010 (B2)
				ii) Staining Acetate	3-4	
				iii) Staining Cotton	3-4	
				iv) Staining Nylon	3-4	
				v) Staining Polyester	3-4	
				vi) Staining Acrylic	3-4	
				vii) Staining Wool	3-4	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4 or better	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	3-4	
				iii) Acidic-Staining Cotton	3-4	
				iv) Acidic-Staining Nylon	3-4	
				v) Acidic-Staining Polyester	3-4	
				vi) Acidic-Staining Acrylic	3-4	
				vii) Acidic-Staining Wool	3-4	
				viii) Alkaline-Change in colour	4 or better	
				ix) Alkaline-Staining Acetate	3-4	
				x) Alkaline-Staining Cotton	3-4	
				xi) Alkaline-Staining Nylon	3-4	
				xii) Alkaline-Staining Polyester	3-4	
				xiii) Alkaline-Staining Acrylic	3-4	
				xiv) Alkaline-Staining Wool	3-4	
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4 or better	BDS ISO 105 X 12:2017
				b) Wet rub-	3	
			Colour Fastness to Hot Pressing	a) Dry condition- Change in colour	4 or better	BDS ISO 105-X11:2005
				b) Dry condition- Staining	4 or better	
				c) Damp condition- Change in colour	4 or better	
				d) Damp condition- Staining	4 or better	
				e) Wet condition- Change in colour	4 or better	
				f) Wet condition- Staining	4 or better	

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
3 (ii)	Woven Shirting made of Polyester or polyester Blends - Coloured (Cold Water)	BDS 1148:	Width of fabric	Width in cm (Tolerance: ± 1 cm)	*-text field-*	BDS ISO 22198:2009
			2021	GSM (Weight per unit area or length)	Gram / square Meter (Tolerance: -2.5% to +5%)	*-text field-*
		Tensile Strength (Strip strength) -Breaking load on (5×20) cm strips in Newton	a) Warp way-	Minimum 350 N	BDS ISO 13934-1:2020	
			b) Weft way-	Minimum 300 N		
		Material Composition of fibre- Percentage of Polyester		[Polyester 100%]or, [Polyester not less than 48% and not more than 80%]	BDS ISO 1833 - 24:2017	
		Shrinkage or elongation Percentage of Fabric	a) Warp way-	Maximum 2%	BDS ISO 7771:2006	
			b) Weft way-	Maximum 2%		
		pH of aqueous extract		6.00 to 8.00	BDS ISO 3071:2006	
		Pilling resistance (Pill Box method) (Up to 5 hrs/18000 revs)		4 or better	BDS ISO 12945-1:2009	
		Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003	
		Colour fastness to Washing (B2)	i) Change in colour	4 or better	BDS ISO 105 C 10:2010 (B2)	
			ii) Staining Acetate	3-4		
			iii) Staining Cotton	3-4		
			iv) Staining Nylon	3-4		
			v) Staining Polyester	3-4		
			vi) Staining Acrylic	3-4		
vii) Staining Wool	3-4					
Colour fastness to Perspiration	i) Acidic-Change in colour	4 or better	BDS ISO 105 E 04:2016			
	ii) Acidic-Staining Acetate	3-4				
	iii) Acidic-Staining Cotton	3-4				
	iv) Acidic-Staining Nylon	3-4				
	v) Acidic-Staining Polyester	3-4				
	vi) Acidic-Staining Acrylic	3-4				
	vii) Acidic-Staining Wool	3-4				
	viii) Alkaline-Change in colour	4 or better				
	ix) Alkaline-Staining Acetate	3-4				
	x) Alkaline-Staining Cotton	3-4				
	xi) Alkaline-Staining Nylon	3-4				
	xii) Alkaline-Staining Polyester	3-4				
	xiii) Alkaline-Staining Acrylic	3-4				
	xiv) Alkaline-Staining Wool	3-4				

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4 or better	BDS ISO 105 X 12:2017
				b) Wet rub-	3	
			Colour Fastness to Hot Pressing	a) Dry condition- Change in colour	4 or better	BDS ISO 105-X11:2005
				b) Dry condition- Staining	4 or better	
				c) Damp condition- Change in colour	4 or better	
				d) Damp condition- Staining	4 or better	
				e) Wet condition- Change in colour	4 or better	
f) Wet condition- Staining	4 or better					
3 (iii)	Woven Shirting made of Polyester or polyester Blends - White (Machine Wash)	BDS 1148:	Width of fabric	Width in cm (Tolerance: ± 1 cm)	*-text field-*	BDS ISO 22198:2009
			2021	GSM (Weight per unit area or length)	Gram / square Meter (Tolerance: -2.5% to +5%)	*-text field-*
			Tensile Strength (Strip strength) -Breaking load on (5×20) cm strips in Newton	a) Warp way-	Minimum 350 N	BDS ISO 13934-1:2020
				b) Weft way-	Minimum 300 N	
			Material Composition of fibre- Percentage of Polyester		[Polyester 100%]or, [Polyester not less than 48% and not more than 80%]	BDS ISO 1833 - 24:2017
			Dimensional Stability to machine Washing/ Laundering -Fabric Shrinkage(Wash-4N)	a) Warp way-	Maximum 2%	(Wash-4N, Machine type-A) BDS ISO 6330:2020, BDS ISO 3759:2019, BDS ISO 5077:2008
				b) Weft way-	Maximum 2%	
			pH of aqueous extract		6.00 to 8.00	BDS ISO 3071:2006
	Pilling resistance (Pill Box method) (Up to 5 hrs/18000 revs)		4 or better	BDS ISO 12945-1:2009		

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
3 (iv)	Woven Shirting made of Polyester or polyester Blends - White (Cold Water)	BDS 1148:	Width of fabric	Width in cm (Tolerance: ± 1 cm)	*-text field-*	BDS ISO 22198:2009
			2021	GSM (Weight per unit area or length)	Gram / square Meter (Tolerance: -2.5% to +5%)	*-text field-*
		Tensile Strength (Strip strength) -Breaking load on (5×20) cm strips in Newton	a) Warp way-	Minimum 350 N	BDS ISO 13934-1:2020	
			b) Weft way-	Minimum 300 N		
		Material Composition of fibre- Percentage of Polyester		[Polyester 100%]or, [Polyester not less than 48% and not more than 80%]	BDS ISO 1833 - 24:2017	
		Shrinkage or elongation Percentage of Fabric	a) Warp way-	Maximum 2%	BDS ISO 7771:2006	
			b) Weft way-	Maximum 2%		
		pH of aqueous extract		6.00 to 8.00	BDS ISO 3071:2006	
Pilling resistance (Pill Box method) (Up to 5 hrs/18000 revs)		4 or better	BDS ISO 12945-1:2009			
4 (i)	Woven Suiting made of Polyester or polyester Blends - Coloured (Machine Wash)	BDS 1175:	Width of fabric	Width in cm (Tolerance: ± 1 cm)	*-text field-*	BDS ISO 22198:2009
			2021	GSM (Weight per unit area or length)	Gram / square Meter (Tolerance: -2.5% to +5%)	*-text field-*
		Tensile Strength (Strip strength) -Breaking load on (5×20) cm strips in Newton	a) Warp way-	Minimum 600 N	BDS ISO 13934-1:2020	
			b) Weft way-	Minimum 400 N		
		Material Composition of fibre-Percentage of Polyester		[Polyester 100%]or, [Polyester not less than 48%]	BDS ISO 1833 - 24:2017	
		Dimensional Stability to machine Washing/ Laundering -Fabric Shrinkage(Wash-4N)	a) Warp way-	Maximum 2%	(Wash-4N, Machine type-A) BDS ISO 6330:2020, BDS ISO 3759:2019, BDS ISO 5077:2008	
			b) Weft way-	Maximum 2%		
pH of aqueous extract		6.00 to 8.00	BDS ISO 3071:2006			

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
			Pilling resistance (Pill Box method) (Up to 5 hrs/18000 revs)		4 or better	BDS ISO 12945-1:2009
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Washing (B2)	i) Change in colour	4 or better	BDS ISO 105 C 10:2010 (B2)
				ii) Staining Acetate	3-4	
				iii) Staining Cotton	3-4	
				iv) Staining Nylon	3-4	
				v) Staining Polyester	3-4	
				vi) Staining Acrylic	3-4	
				vii) Staining Wool	3-4	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4 or better	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	3-4	
				iii) Acidic-Staining Cotton	3-4	
				iv) Acidic-Staining Nylon	3-4	
				v) Acidic-Staining Polyester	3-4	
				vi) Acidic-Staining Acrylic	3-4	
				vii) Acidic-Staining Wool	3-4	
				viii) Alkaline-Change in colour	4 or better	
				ix) Alkaline-Staining Acetate	3-4	
				x) Alkaline-Staining Cotton	3-4	
				xi) Alkaline-Staining Nylon	3-4	
				xii) Alkaline-Staining Polyester	3-4	
				xiii) Alkaline-Staining Acrylic	3-4	
				xiv) Alkaline-Staining Wool	3-4	
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4 or better	BDS ISO 105 X 12:2017
				b) Wet rub-	3	
			Colour Fastness to Hot Pressing	a) Dry condition- Change in colour	4 or better	BDS ISO 105-X11:2005
				b) Dry condition- Staining	4 or better	
				c) Damp condition- Change in colour	4 or better	
				d) Damp condition- Staining	4 or better	
				e) Wet condition- Change in colour	4 or better	
				f) Wet condition- Staining	4 or better	

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
4 (ii)	Woven Suiting made of Polyester or polyester Blends - Coloured (Cold Water)	BDS 1175:	Width of fabric	Width in cm (Tolerance: ± 1 cm)	*-text field-*	BDS ISO 22198:2009
			2021	GSM (Weight per unit area or length)	Gram / square Meter (Tolerance: -2.5% to +5%)	*-text field-*
		Tensile Strength (Strip strength) -Breaking load on (5 \times 20) cm strips in Newton	a) Warp way-	Minimum 600 N	BDS ISO 13934-1:2020	
			b) Weft way-	Minimum 400 N		
		Material Composition of fibre-Percentage of Polyester		[Polyester 100%]or, [Polyester not less than 48%]	BDS ISO 1833 - 24:2017	
		Shrinkage or elongation Percentage of Fabric	a) Warp way-	Maximum 2%	BDS ISO 7771:2006	
			b) Weft way-	Maximum 2%		
		pH of aqueous extract		6.00 to 8.00	BDS ISO 3071:2006	
		Pilling resistance (Pill Box method) (Up to 5 hrs/18000 revs)		4 or better	BDS ISO 12945-1:2009	
		Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003	
		Colour fastness to Washing (B2)	i) Change in colour	4 or better	BDS ISO 105 C 10:2010 (B2)	
			ii) Staining Acetate	3-4		
			iii) Staining Cotton	3-4		
			iv) Staining Nylon	3-4		
			v) Staining Polyester	3-4		
			vi) Staining Acrylic	3-4		
			vii) Staining Wool	3-4		
		Colour fastness to Perspiration	i) Acidic-Change in colour	4 or better	BDS ISO 105 E 04:2016	
			ii) Acidic-Staining Acetate	3-4		
			iii) Acidic-Staining Cotton	3-4		
iv) Acidic-Staining Nylon	3-4					
v) Acidic-Staining Polyester	3-4					
vi) Acidic-Staining Acrylic	3-4					
vii) Acidic-Staining Wool	3-4					
viii) Alkaline-Change in colour	4 or better					
ix) Alkaline-Staining Acetate	3-4					
x) Alkaline-Staining Cotton	3-4					
xi) Alkaline-Staining Nylon	3-4					
xii) Alkaline-Staining Polyester	3-4					
xiii) Alkaline-Staining Acrylic	3-4					
xiv) Alkaline-Staining Wool	3-4					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4 or better	BDS ISO 105 X 12:2017
				b) Wet rub-	3	
			Colour Fastness to Hot Pressing	a) Dry condition-Change in colour	4 or better	BDS ISO 105-X11:2005
				b) Dry condition-Staining	4 or better	
				c) Damp condition-Change in colour	4 or better	
				d) Damp condition-Staining	4 or better	
				e) Wet condition-Change in colour	4 or better	
				f) Wet condition-Staining	4 or better	
4 (iii)	Woven Suiting made of Polyester or polyester Blends - White (Machine Wash)	BDS 1175: 2021	Width of fabric	Width in cm (Tolerance: ±1 cm)	*-text field-*	BDS ISO 22198:2009
			GSM (Weight per unit area or length)	Gram / square Meter (Tolerance: -2.5% to +5%)	*-text field-*	BDS ISO 3801:2010
			Tensile Strength (Strip strength) -Breaking load on (5×20) cm strips in Newton	a) Warp way-	Minimum 600 N	BDS ISO 13934-1:2020
				b) Weft way-	Minimum 400 N	
			Material Composition of fibre-Percentage of Polyester		[Polyester 100%] or, [Polyester not less than 48%]	BDS ISO 1833 - 24:2017
			Dimensional Stability to machine Washing/ Laundering -Fabric Shrinkage(Wash-4N)	a) Warp way-	Maximum 2%	(Wash-4N, Machine type-A) BDS ISO 6330:2020, BDS ISO 3759:2019, BDS ISO 5077:2008
				b) Weft way-	Maximum 2%	
pH of aqueous extract		6.00 to 8.00	BDS ISO 3071:2006			
Pilling resistance (Pill Box method) (Up to 5 hrs/18000 revs)		4 or better	BDS ISO 12945-1:2009			
4 (iv)	Woven Suiting made of Polyester or polyester Blends - White (Cold Water)	BDS 1175: 2021	Width of fabric	Width in cm (Tolerance: ±1 cm)	*-text field-*	BDS ISO 22198:2009
			GSM (Weight per unit area or length)	Gram / square Meter (Tolerance: -2.5% to +5%)	*-text field-*	BDS ISO 3801:2010
			Tensile Strength (Strip strength) -Breaking load on (5×20) cm strips in Newton	a) Warp way-	Minimum 600 N	BDS ISO 13934-1:2020
b) Weft way-	Minimum 400 N					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
			Material Composition of fibre- Percentage of Polyester		[Polyester 100%]or, [Polyester not less than 48%]	BDS ISO 1833 - 24:2017
			Shrinkage or elongation Percentage of Fabric	a) Warp way-	Maximum 2%	BDS ISO 7771:2006
				b) Weft way-	Maximum 2%	
			pH of aqueous extract		6.00 to 8.00	BDS ISO 3071:2006
			Pilling resistance (Pill Box method) (Up to 5 hrs/18000 revs)		4 or better	BDS ISO 12945-1:2009
5	Colour Fastness to Steaming	BDS ISO 105-E11:2004	Colour Fastness to Steaming	i) Change in colour	*-text field-*	BDS ISO 105-E11:2004
				ii) Staining Acetate	*-text field-*	
				iii) Staining Cotton	*-text field-*	
				iv) Staining Nylon	*-text field-*	
				v) Staining Polyester	*-text field-*	
				vi) Staining Acrylic	*-text field-*	
				vii) Staining Wool	*-text field-*	
6	Sanitary Towels/ Napkins	BDS 1261: 2019	Full Pad Length in mm. (Sanitary Napkin)	Length (middle line from end to end) in mm (Tolerance: ± 10 mm)	*-text field-*	BDS 1261:2019
			Pad width in mm. (Sanitary Napkin)	Width (absorbent core only in centre)	Minimum 55 mm	BDS 1261:2019
			PH Value (Sanitary Napkin)	pH of aqueous extract	5.5 to 8.5	BDS 1261:2019
			Ability to Withstand Pressure after Absorption. (Sanitary Napkin)		No Leakage	BDS 1261:2019
7	Cotton Sharee-Power Loom	BDS 63:2017	Weave of fabric(Plain)		Plain weave	Visual
			Thread per unit Length (Ends and Picks per unit length)	a) Ends per 2.54cm (Tolerance: $\pm 5\%$)	*-text field-*	BDS ISO 7211-2:2008
				a) Picks per 2.54cm (Tolerance: $\pm 5\%$)	*-text field-*	
			GSM (Weight per unit area or length)	Gram / square Meter (Tolerance: $\pm 5\%$)	*-text field-*	BDS ISO 3801:2010
			Width of fabric	Width in cm (Tolerance: $\pm 2\%$)	*-text field-*	BDS ISO 22198:2009
			Length (Fabric piece)	Length in cm (Tolerance: $\pm 2\%$)	*-text field-*	BDS ISO 22198:2009
			Count(Linear density) of thread removed from fabric (Woven & Knitted)	a) Warp Count in Tex-	*-text field-*	BDS ISO 7211-5:2008
b) Weft Count in Tex-	*-text field-*					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
			Shrinkage or elongation Percentage of Fabric	a) Warp way-	Not more than 2%	BDS ISO 7771:2006
				b) Weft way-	Not more than 1%	
			Tensile Strength (Strip strength) -Breaking load on (5×20) cm strips in Newton	a) Warp way (Tolerance: Not less than 97% of declared value)	*-text field-*	BDS ISO 13934-1:2020
				b) Weft way (Tolerance: Not less than 97% of declared value)	*-text field-*	
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Washing (C3)	i) Change in colour	4 or better	BDS ISO 105 C 10:2010 (C3)
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
				vi) Staining Acrylic	4 or better	
				vii) Staining Wool	4 or better	
			Colour Fastness to Hypochlorite Bleach	Change in Colour of test specimen	4 or better	BDS ISO 105-N01:2007
			Colour fastness to Perspiration	i) Acidic-Change in colour	4 or better	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4 or better	
				iii) Acidic-Staining Cotton	4 or better	
				iv) Acidic-Staining Nylon	4 or better	
				v) Acidic-Staining Polyester	4 or better	
				vi) Acidic-Staining Acrylic	4 or better	
				vii) Acidic-Staining Wool	4 or better	
viii) Alkaline-Change in colour	4 or better					
ix) Alkaline-Staining Acetate	4 or better					
x) Alkaline-Staining Cotton	4 or better					
xi) Alkaline-Staining Nylon	4 or better					
xii) Alkaline-Staining Polyester	4 or better					
xiii) Alkaline-Staining Acrylic	4 or better					
xiv) Alkaline-Staining Wool	4 or better					
8	Handloom Cotton Lungi Cloth	BDS 1331: 2017	Count(Linear density) of thread removed from fabric (Woven & Knitted)	a) Warp Count in Tex-	*-text field-*	BDS ISO 7211-5:2008
				b) Weft Count in Tex-	*-text field-*	
			Weave of fabric(Plain)		Plain weave	Visual
			Shrinkage or elongation Percentage of Fabric	a) Warp way-	Maximum 4%	BDS ISO 7771:2006
b) Weft way-	Maximum 4%					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
			Length (Fabric piece)	Length in cm	1.8m to 2.25m	BDS ISO 22198:2009
			Width of fabric	Width in cm	90cm to 127cm	BDS ISO 22198:2009
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Washing (C3)	i) Change in colour	4 or better	BDS ISO 105 C 10:2010 (C3)
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
				vi) Staining Acrylic	4 or better	
				vii) Staining Wool	4 or better	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4 or better	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4 or better	
				iii) Acidic-Staining Cotton	4 or better	
				iv) Acidic-Staining Nylon	4 or better	
				v) Acidic-Staining Polyester	4 or better	
				vi) Acidic-Staining Acrylic	4 or better	
				vii) Acidic-Staining Wool	4 or better	
				viii) Alkaline-Change in colour	4 or better	
				ix) Alkaline-Staining Acetate	4 or better	
				x) Alkaline-Staining Cotton	4 or better	
				xi) Alkaline-Staining Nylon	4 or better	
				xii) Alkaline-Staining Polyester	4 or better	
				xiii) Alkaline-Staining Acrylic	4 or better	
				xiv) Alkaline-Staining Wool	4 or better	
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	3-4	

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
9	Absorbent Cotton	BDS 1260: 2016	Material Composition of fibre- Percentage of Cellulose(Cotton)		100.00 %	BDS ISO 1833 - 11:2012
			Absorbency in Seconds (Fibre)		Less or equal 10 seconds	BDS 1260: 2016
			Resistance to heat (Fibre)		[Shall not turn brown and shall not show sign of degradation]	BDS 1260: 2016
			Water soluble extract% (Fibre)		Less or equal 0.35%	BDS 1260: 2016
			Ash content% (Fibre)		Less or equal 0.35%	BDS 1260: 2016
			pH of Fibre (aqueous extract)		5.5 to 8.5	BDS 1260: 2016
			Moisture Regain in Percentage (Fibre)		Maximum 8.5%	BDS 1260: 2016
10 (i)	Umbrella Cloth- Coloured (Machine Wash)	BDS 1125: 2020	Thread per unit Length (Ends and Picks per unit length)	a) Ends per dm (Tolerance: -2.5% to +5%)	*-text field-*	BDS ISO 7211-2:2008
				b) Picks per dm(Tolerance: -2.5% to +5%)	*-text field-*	
			GSM (Weight per unit area or length)	Gram / square Meter (Tolerance: -2.5% to +5%)	*-text field-*	BDS ISO 3801:2010
			Length (Fabric piece)	Length in cm	*-text field-*	BDS ISO 22198:2009
			Width of fabric	Width in cm (Tolerance: +1%)	*-text field-*	BDS ISO 22198:2009
			Count(Linear density) of thread removed from fabric (Woven & Knitted)	a) Warp Count in Tex (Tolerance: ± 5%)	*-text field-*	BDS ISO 7211-5:2008
				b) Weft Count in Tex (Tolerance: ± 5%)	*-text field-*	
			Tensile Strength (Strip strength) -Breaking load on (5×20) cm strips in Newton	a) Warp way-	*-text field-*	BDS ISO 13934-1:2020
				b) Weft way-	*-text field-*	
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Water	i) Change in colour	4 or better	BDS ISO 105 E 01:2016
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
iv) Staining Nylon	4 or better					
v) Staining Polyester	4 or better					
vi) Staining Acrylic	4 or better					
vii) Staining Wool	4 or better					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
			pH of aqueous extract		5.5 to 10	BDS ISO 3071:2006
			Dimensional Stability to machine Washing/ Laundering -Fabric Shrinkage(Wash-4N)	a) Warp way-	Maximum 1%	(Wash-4N, Machine type-A) BDS ISO 6330:2020, BDS ISO 3759:2019, BDS ISO 5077:2008
				b) Weft way-	Maximum 1%	
			Bundesmann Test		No Leakage	BDS ISO 9865
			Water proofing test(Cone)	i) Amount of Penetration	No Leakage	BDS 1975
				ii) Wettig of outer surface (Visual)	No Leakage	
			Test for Water Repellency- Spray Test		ISO 5	BDS ISO 4920:2012
10 (ii)	Umbrella Cloth- Coloured (Cold Water)	BDS 1125: 2020	Thread per unit Length (Ends and Picks per unit length)	a) Ends per dm (Tolerance: -2.5% to +5%)	*-text field-*	BDS ISO 7211-2:2008
				b) Picks per dm(Tolerance: -2.5% to +5%)	*-text field-*	
			GSM (Weight per unit area or length)	Gram / square Meter (Tolerance: -2.5% to +5%)	*-text field-*	BDS ISO 3801:2010
			Length (Fabric piece)	Length in cm	*-text field-*	BDS ISO 22198:2009
			Width of fabric	Width in cm (Tolerance: +1%)	*-text field-*	BDS ISO 22198:2009
			Count(Linear density) of thread removed from fabric (Woven & Knitted)	a) Warp Count in Tex (Tolerance: ± 5%)	*-text field-*	BDS ISO 7211-5:2008
				b) Weft Count in Tex (Tolerance: ± 5%)	*-text field-*	
			Tensile Strength (Strip strength) -Breaking load on (5×20) cm strips in Newton	a) Warp way-	*-text field-*	BDS ISO 13934-1:2020
				b) Weft way-	*-text field-*	
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Water	i) Change in colour	4 or better	BDS ISO 105 E 01:2016
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
iv) Staining Nylon	4 or better					
v) Staining Polyester	4 or better					
vi) Staining Acrylic	4 or better					
vii) Staining Wool	4 or better					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method			
			pH of aqueous extract		5.5 to 10	BDS ISO 3071:2006			
			Shrinkage or elongation Percentage of Fabric	a) Warp way-	Maximum 1%	BDS ISO 7771:2006			
				b) Weft way-	Maximum 1%				
			Bundesmann Test		No Leakage	BDS ISO 9865			
			Water proofing test(Cone)	i) Amount of Penetration	No Leakage	BDS 1975			
				ii) Wettig of outer surface (Visual)	No Leakage				
			Test for Water Repellency- Spray Test		ISO 5	BDS ISO 4920:2012			
10 (iii)	Umbrella Cloth-White (Machine Wash)	BDS 1125: 2020	Thread per unit Length (Ends and Picks per unit length)	a) Ends per dm (Tolerance: -2.5% to +5%)	*-text field-*	BDS ISO 7211-2:2008			
				b) Picks per dm(Tolerance: -2.5% to +5%)	*-text field-*				
			GSM (Weight per unit area or length)	Gram / square Meter (Tolerance: -2.5% to +5%)	*-text field-*	BDS ISO 3801:2010			
			Length (Fabric piece)	Length in cm	*-text field-*	BDS ISO 22198:2009			
			Width of fabric	Width in cm (Tolerance: +1%)	*-text field-*	BDS ISO 22198:2009			
			Count(Linear density) of thread removed from fabric (Woven & Knitted)	a) Warp Count in Tex (Tolerance: ± 5%)	*-text field-*	BDS ISO 7211-5:2008			
				b) Weft Count in Tex (Tolerance: ± 5%)	*-text field-*				
			Tensile Strength (Strip strength) -Breaking load on (5×20) cm strips in Newton	a) Warp way-	*-text field-*	BDS ISO 13934-1:2020			
				b) Weft way-	*-text field-*				
						pH of aqueous extract		5.5 to 10	BDS ISO 3071:2006
						Dimensional Stability to machine Washing/ Laundering -Fabric Shrinkage(Wash-4N)	a) Warp way-	Maximum 1%	(Wash-4N, Machine type-A) BDS ISO 6330:2020, BDS ISO 3759:2019, BDS ISO 5077:2008
							b) Weft way-	Maximum 1%	
						Bundesmann Test		No Leakage	BDS ISO 9865
						Water proofing test(Cone)	i) Amount of Penetration	No Leakage	BDS 1975
			ii) Wettig of outer surface (Visual)	No Leakage					
			Test for Water Repellency- Spray Test		ISO 5	BDS ISO 4920:2012			

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
10 (iv)	Umbrella Cloth-White (Cold Water)	BDS 1125:2020	Thread per unit Length (Ends and Picks per unit length)	a) Ends per dm (Tolerance: -2.5% to +5%)	*-text field-*	BDS ISO 7211-2:2008
				b) Picks per dm(Tolerance: -2.5% to +5%)	*-text field-*	
			GSM (Weight per unit area or length)	Gram / square Meter (Tolerance: -2.5% to +5%)	*-text field-*	BDS ISO 3801:2010
			Length (Fabric piece)	Length in cm	*-text field-*	BDS ISO 22198:2009
			Width of fabric	Width in cm (Tolerance: +1%)	*-text field-*	BDS ISO 22198:2009
			Count(Linear density) of thread removed from fabric (Woven & Knitted)	a) Warp Count in Tex (Tolerance: ± 5%)	*-text field-*	BDS ISO 7211-5:2008
				b) Weft Count in Tex (Tolerance: ± 5%)	*-text field-*	
			Tensile Strength (Strip strength) -Breaking load on (5×20) cm strips in Newton	a) Warp way-	*-text field-*	BDS ISO 13934-1:2020
				b) Weft way-	*-text field-*	
			pH of aqueous extract		5.5 to 10	BDS ISO 3071:2006
			Shrinkage or elongation Percentage of Fabric	a) Warp way-	Maximum 1%	BDS ISO 7771:2006
				b) Weft way-	Maximum 1%	
			Bundesmann Test		No Leakage	BDS ISO 9865
			Water proofing test(Cone)	i) Amount of Penetration	No Leakage	BDS 1975
ii) Wettig of outer surface (Visual)	No Leakage					
Test for Water Repellency- Spray Test		ISO 5	BDS ISO 4920:2012			
11 (i)	Cotton Canvas-Dyed	BDS 319:2020	pH of aqueous extract		6.0-8.5	BDS ISO 3071:2006
			Shrinkage or elongation Percentage of Fabric	a) Warp way-	Maximum 2.5%	BDS ISO 7771:2006
				b) Weft way-	Maximum 2.5%	
			Water proofing test(Cone)	i) Amount of Penetration	No Leakage	BDS 1975
				ii) Wettig of outer surface (Visual)	No Leakage	
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Washing (C3)	i) Change in colour	4 or better	BDS ISO 105 C 10:2010 (C3)
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
iv) Staining Nylon	4 or better					
v) Staining Polyester	4 or better					
vi) Staining Acrylic	4 or better					
vii) Staining Wool	4 or better					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
11 (ii)	Cotton Canvas-Grey (White)	BDS 319:2020	pH of aqueous extract		6.0-8.5	BDS ISO 3071:2006
			Shrinkage or elongation Percentage of Fabric	a) Warp way-	Maximum 2.5%	BDS ISO 7771:2006
				b) Weft way-	Maximum 2.5%	
			Water proofing test(Cone)	i) Amount of Penetration	No Leakage	BDS 1975
ii) Wettig of outer surface (Visual)	No Leakage					
12 (i)	Poplin Fabric-Coloured	BDS 32: 2011	Thread per unit Length (Ends and Picks per unit length)	a) Ends per 2.54cm-	137	BDS ISO 7211-2:2008
				a) Picks per 2.54cm-	71	
			GSM (Weight per unit area or length)	Gram / square Meter	125	BDS ISO 3801:2010
			Tensile Strength (Strip strength) -Breaking load on (5×20) cm strips in Newton	a) Warp way-	621	BDS ISO 13934-1:2020
				b) Weft way-	325	
			Length (Fabric piece)	Length in cm	3600 cm or above	BDS ISO 22198:2009
			Width of fabric	Width in cm	91 cm	BDS ISO 22198:2009
			Weave of fabric(Plain)		Plain weave	Visual
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Washing (C3)	i) Change in colour	4 or better	BDS ISO 105 C 10:2010 (C3)
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
				vi) Staining Acrylic	4 or better	
				vii) Staining Wool	4 or better	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4 or better	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4 or better	
				iii) Acidic-Staining Cotton	4 or better	
				iv) Acidic-Staining Nylon	4 or better	
				v) Acidic-Staining Polyester	4 or better	
				vi) Acidic-Staining Acrylic	4 or better	
				vii) Acidic-Staining Wool	4 or better	
				viii) Alkaline-Change in colour	4 or better	
				ix) Alkaline-Staining Acetate	4 or better	
				x) Alkaline-Staining Cotton	4 or better	
				xi) Alkaline-Staining Nylon	4 or better	
xii) Alkaline-Staining Polyester	4 or better					
xiii) Alkaline-Staining Acrylic	4 or better					
xiv) Alkaline-Staining Wool	4 or better					
Colour fastness to Rubbing/Crocking	a) Dry rub-	4 or better	BDS ISO 105 X 12:2017			
	b) Wet rub-	4 or better				

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
			Colour Fastness to Hot Pressing	a) Dry condition- Change in colour	4 or better	BDS ISO 105-X11:2005
				b) Dry condition- Staining	4 or better	
				c) Damp condition- Change in colour	4 or better	
				d) Damp condition- Staining	4 or better	
				e) Wet condition- Change in colour	4 or better	
				f) Wet condition- Staining	4 or better	
			pH of aqueous extract		6.0 to 8.0	BDS ISO 3071:2006
			Shrinkage or elongation Percentage of Fabric	a) Warp way-	Maximum 3%	BDS ISO 7771:2006
				b) Weft way-	Maximum 3%	
			Material Composition of fibre- Percentage of Cellulose(Cotton)	Percentage of Cellulose(Cotton) (Tolerance: $\pm 3\%$)	*-text field-*	BDS ISO 1833 - 11:2012
			Pilling(after 2000 rub)		4 or better	BDS ISO 12945-2
			Martindale Abrasion Resistance (i. Specimen break down)		4 or better	BDS ISO 12947-2: 2009
Tear strenght	a) Warp way-	*-text field-*	BDS ISO 13937-1:2005			
	b) Weft way-	*-text field-*				
12 (ii)	Poplin Fabric- White	BDS 32:2011	Thread per unit Length (Ends and Picks per unit length)	a) Ends per 2.54cm-	137	BDS ISO 7211-2:2008
				a) Picks per 2.54cm-	71	
			GSM (Weight per unit area or length)	Gram / square Meter	125	BDS ISO 3801:2010
			Tensile Strength (Strip strength) -Breaking load on (5×20) cm strips in Newton	a) Warp way-	621	BDS ISO 13934-1:2020
				b) Weft way-	325	
			Length (Fabric piece)	Length in cm	3600 cm or above	BDS ISO 22198:2009
			Width of fabric	Width in cm	91 cm	BDS ISO 22198:2009
			Weave of fabric(Plain)		Plain weave	Visual
			pH of aqueous extract		6.0 to 8.0	BDS ISO 3071:2006
			Shrinkage or elongation Percentage of Fabric	a) Warp way-	Maximum 3%	BDS ISO 7771:2006
				b) Weft way-	Maximum 3%	
			Material Composition of fibre- Percentage of Cellulose (Cotton)	Percentage of Cellulose(Cotton) (Tolerance: $\pm 3\%$)	*-text field-*	BDS ISO 1833 - 11:2012
Pilling (after 2000 rub)		4 or better	BDS ISO 12945-2			

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
			Martindale Abrasion Resistance (i. Specimen break down)		4 or better	BDS ISO 12947-2: 2009
			Tear strenght	a) Warp way-	*-text field-*	BDS ISO 13937-1:2005
				b) Weft way-	*-text field-*	
13 (i)	Hessian Jute Bags for Rice & Pulse (50kg)	BDS 1989: 2021	Dimensions (Outside Length) in cm -		94cm (+4/-0)cm	BDS 1989:2021 (Anneex- B-2)
			Dimensions (Outside Width) in cm -		57cm (+4/-0)cm	BDS 1989:2021 (Anneex- B-2)
			Ends and Picks per dm-	a) Ends per dm (Porter)-	47± 2	BDS ISO 7211-2:2008
				b) Picks per dm (Shots)-	47± 2	
			Corrected mass/ bag. g		360g (-2% to +6%)	BDS 1989:2021 (Anneex- B-4)
			Breaking strength of fabric (cut strip method) (10x20) cm in Newton	a) Warp way-	Minimum 1078 N	BDS ISO 13934-1:2020
				b) Weft way-	Minimum 1127 N	
			Breaking strength of seam (cut strip method) (5x20) cm in Newton		Minimum 333 N	BDS ISO 13935-1:
Moisture regain		Maximum 17%	BDS 1989:2021 (Anneex- B-3)			
Oil content on dry de-oiled material		Maximum 3%	BDS 949:			
13 (ii)	Hessian Jute Bags for Rice & Pulse (25kg)	BDS 1989: 2021	Dimensions (Outside Length) in cm -		71cm (+4/-0)cm	BDS 1989:2021 (Anneex- B-2)
			Dimensions (Outside Width) in cm -		46cm (+4/-0)cm	BDS 1989:2021 (Anneex- B-2)
			Ends and Picks per dm-	a) Ends per dm (Porter)-	47± 2	BDS ISO 7211-2:2008
				b) Picks per dm (Shots)-	47± 2	
			Corrected mass/ bag. g		220g (-2% to +6%)	BDS 1989:2021 (Anneex- B-4)
			Breaking strength of fabric (cut strip method) (10x20) cm in Newton	a) Warp way-	Minimum 1078 N	BDS ISO 13934-1:2020
				b) Weft way-	Minimum 1127 N	
			Breaking strength of seam (cut strip method) (5x20) cm in Newton		Minimum 333 N	BDS ISO 13935-1:
Moisture regain		Maximum 17%	BDS 1989:2021 (Anneex- B-3)			
Oil content on dry de-oiled material		Maximum 3%	BDS 949:			

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
14	Hessian Jute Bags for packing 30 KG Food Grains	BDS 2005:2022	Dimensions (Outside Length) in cm -		86.36cm (+4/-0)cm	BDS 2005:2022 (Anneex- B-2)
			Dimensions (Outside Width) in cm -		45.72cm (+4/-0)cm	BDS 2005:2022 (Anneex- B-2)
			Ends and Picks per dm-	a) Ends per dm (Porter)-	47± 2	BDS ISO 7211-2:2008
				b) Picks per dm (Shots)-	47± 2	
			Corrected mass/ bag. g		330g (-2% to +6%)	BDS 2005:2022 (Anneex- B-4)
			Breaking strength of fabric (cut strip method) (10x20) cm in Newton	a) Warp way-	Minimum 1097.6 N	BDS ISO 13934-1:2020
				b) Weft way-	Minimum 1176 N	
			Breaking strength of seam (cut strip method) (5x20) cm in Newton	a) Warp way-	Minimum 333.2 N	BDS ISO 13935-1:
				b) Weft way-	Minimum 352.8 N	
Moisture regain		Maximum 17%	BDS 2005:2022 (Anneex- B-3)			
Oil content on dry de-oiled material		Maximum 3%	BDS 949:			
15 (i)	Textiles -Jute bags for packing 50 kg Foodgrains (Type-A: Single warp, double weft woven on modern shuttle less loom)	BDS 1767:2014	Dimensions (Outside Length) in cm -		94cm (+4/-0)cm	BDS ISO 22198:2009
			Dimensions (Outside Width) in cm -		57cm (+4/-0)cm	BDS ISO 22198:2009
			Ends and Picks per dm-	a) Ends per dm -	46 (-3 to +4)	BDS ISO 7211-2:2008
				b) Picks per dm -	50 (-2 to +4)	
			Corrected mass/ bag. g		(-6.0% to +8.0%)	BDS 1767:2014 (Anneex- E-3)
			Average breaking strength of sacking (ravelled strip method) (10x20) cm in Newton	a) Warp way-	Minimum 1570 N	BDS ISO 13934-1:2020
				b) Weft way-	Minimum 1420 N	
			Average seam strength (ravelled strip method) (5x20) cm in Newton		Minimum 490 N	BDS ISO 13935-1:
			Moisture regain		Maximum 22%	BDS1767:2014 (Anneex- E-2)
Oil content on dry de-oiled material		Maximum 3%	BDS 1767:2014 (Anneex- F-4)			

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
15 (ii)	Textiles -Jute bags for packing 50 kg Foodgrains (Type-B: Double warp, single weft woven on conventional shuttle loom)	BDS 1767: 2014	Dimensions (Outside Length) in cm -		94cm (+4/-0)cm	BDS ISO 22198:2009
			Dimensions (Outside Width) in cm -		57cm (+4/-0)cm	BDS ISO 22198:2009
			Ends and Picks per dm-	a) Ends per dm -	76 (-3 to +4)	BDS ISO 7211-2:2008
				b) Picks per dm -	28 (-2 to +4)	
			Corrected mass/ bag. g		665g (-6.0% to +8.0%)	BDS 1767:2014 (Annex-E-3)
			Average breaking strength of sacking (ravelled strip method) (10x20) cm in Newton	a) Warp way-	Minimum 1570 N	BDS ISO 13934-1:2020
				b) Weft way-	Minimum 1420 N	
			Average seam strength (ravelled strip method) (5x20) cm in Newton		Minimum 490 N	BDS ISO 13935-1:
Moisture regain		Maximum 22%	BDS1767:2014 (Annex- E-2)			
Oil content on dry de-oiled material		Maximum 3%	BDS 1767:2014 (Annex-F-4)			
16 (i)	Light Weight Jute Sacking Bags for Packing 50 Kg Food grains (Type-A: Single warp, double weft woven on modern shuttle less loom)	BDS 1974: 2019	Dimensions (Outside Length) in cm -		94cm (+4/-0)cm	BDS 1049
			Dimensions (Outside Width) in cm -		57cm (+4/-0)cm	BDS 1049
			Ends and Picks per dm-	a) Ends per dm -	46 (-4 to +4)	BDS 1049
				b) Picks per dm -	50 (-2 to +2)	
			Corrected mass/ bag. g		580g (-7.5% to +10.0%)	BDS 1049
			Average breaking strength of sacking (ravelled strip method) (10x20) cm in Newton	a) Warp way-	Minimum 1570 N	BDS 1049
				b) Weft way-	Minimum 1420 N	
			Average seam strength (ravelled strip method) (5x20) cm in Newton		Minimum 490 N	BDS 1049
Moisture regain		Maximum 22%	BDS 1049			
Oil content on dry de-oiled material		Maximum 4%	BDS 949			

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
16 (ii)	Light Weight Jute Sacking Bags for Packing 50 Kg Food grains (Type-B: Double warp, single weft woven on conventional shuttle loom)	BDS 1974: 2019	Dimensions (Outside Length) in cm -		94cm (+4/-0)cm	BDS 1049
			Dimensions (Outside Width) in cm -		57cm (+4/-0)cm	BDS 1049
			Ends and Picks per dm-	a) Ends per dm -	64 (-4 to +4)	BDS 1049
				b) Picks per dm -	28 (-2 to +2)	
			Corrected mass/ bag. g		580g (-7.5% to +10.0%)	BDS 1049
			Average breaking strength of sacking (ravelled strip method) (10x20) cm in Newton	a) Warp way-	Minimum 1470 N	BDS 1049
				b) Weft way-	Minimum 1372 N	
			Average seam strength (ravelled strip method) (5x20) cm in Newton		Minimum 441 N	BDS 1049
Moisture regain		Maximum 22%	BDS 1049			
Oil content on dry de-oiled material		Maximum 4%	BDS 949			
17	Nonwoven Wipes	BDS 2017: 2023	Length of wipes in cm		As declared ± 10 mm	BDS 2017:2023
			width of wipes in cm		As declared ± 10 mm	BDS 2017:2023
			PH Value		5 to 7.5	BDS 2017:2023
18 (i)	Silk Fabrics [Type:Raw Silk]	BDS 1467: 2021	The length of fabric cm -		\geq As declared	BDS ISO 22198:2009
			The width of fabric cm -		As declared $\pm 2\%$	BDS ISO 22198:2009
			Mass of Fabric (GSM)		As per BDS 1149	BDS ISO 3801:2010
			Yarn Count in Tex	a) Warp yarn count -	As per BDS 1149	BDS ISO 1144:
				b) Weft yarn count -	As per BDS 1149	
			Ends and Picks per cm-	a) Ends per cm -	As per BDS 1149	BDS ISO 7211-2:2008
				b) Picks per cm -	As per BDS 1149	
Material (Purity of silk fibers)			BDS 1467: 2021 (Anneex-F-4)			

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
18 (ii)	Silk Fabrics [Type: Balaka (Tafetta)] (Thrown degummed 2 ply warp and 2 ply/4ply weft is used)	BDS 1467: 2021	The length of fabric cm -		≥ As declared	BDS ISO 22198:2009
			The width of fabric cm -		As declared ± 2%	BDS ISO 22198:2009
			Mass of Fabric (GSM)		from 48 to 60	BDS ISO 3801:2010
			Yarn Count in Tex	a) Warp yarn count -	from 2.2 to 2.44	BDS ISO 1144:
				b) Weft yarn count -	from 2.2 to 2.44	
			Ends and Picks per cm-	a) Ends per cm -	from 35 to 44	BDS ISO 7211-2:2008
				b) Picks per cm -	from 35 to 44	
Material (Purity of silk fibers)			BDS 1467: 2021 (Annex- F-4)			
18 (iii)	Silk Fabrics [Type: Matka / Hand Spun Silk]	BDS 1467: 2021	The length of fabric cm -		≥ As declared	BDS ISO 22198:2009
			The width of fabric cm -		As declared ± 2%	BDS ISO 22198:2009
			Mass of Fabric (GSM)		As per BDS 1147	BDS ISO 3801:2010
			Yarn Count in Tex	a) Warp yarn count -	As per BDS 1147	BDS ISO 1144:
				b) Weft yarn count -	As per BDS 1147	
			Ends and Picks per cm-	a) Ends per cm -	As per BDS 1147	BDS ISO 7211-2:2008
				b) Picks per cm -	As per BDS 1147	
Material (Purity of silk fibers)			BDS 1467: 2021 (Annex- F-4)			
18 (iv)	Silk Fabrics [Type: Dupion silk] (Thrown degummed 2 ply warp and degummed reeled silk weft is used)	BDS 1467: 2021	The length of fabric cm -		≥ As declared	BDS ISO 22198:2009
			The width of fabric cm -		As declared ± 2%	BDS ISO 22198:2009
			Mass of Fabric (GSM)		from 45 to 86	BDS ISO 3801:2010
			Yarn Count in Tex	a) Warp yarn count -	from 2.2 to 2.44	BDS ISO 1144:
				b) Weft yarn count -	from 11.1 to 22.2	
			Ends and Picks per cm-	a) Ends per cm -	from 40 to 48	BDS ISO 7211-2:2008
				b) Picks per cm -	from 24 to 28	
Material (Purity of silk fibers)			BDS 1467: 2021 (Annex- F-4)			

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
18 (v)	Silk Fabrics [Type: Crepe de chine] [2 ply warp (600– 750 TPM organzine single twist) and 2 ply weft (1800 – 2200 TPM) is used]	BDS 1467: 2021	The length of fabric cm -		≥ As declared	BDS ISO 22198:2009
			The width of fabric cm -		As declared ± 2%	BDS ISO 22198:2009
			Mass of Fabric (GSM)		from 32 to 36	BDS ISO 3801:2010
			Yarn Count in Tex	a) Warp yarn count -	from 2.2 to 2.44	BDS ISO 1144:
				b) Weft yarn count -	from 2.2 to 2.44	
			Ends and Picks per cm-	a) Ends per cm -	38	BDS ISO 7211-2:2008
b) Picks per cm -	35					
Material (Purity of silk fibers)			BDS 1467: 2021 (Anneex-F-4)			
18 (vi)	Silk Fabrics [Type: Ornamented] (2 ply warp and 2 ply /3ply /4ply/ 5 ply weft is used)	BDS 1467: 2021	The length of fabric cm -		≥ As declared	BDS ISO 22198:2009
			The width of fabric cm -		As declared ± 2%	BDS ISO 22198:2009
			Mass of Fabric (GSM)		from 36 to 76	BDS ISO 3801:2010
			Yarn Count in Tex	a) Warp yarn count -	from 2.2 to 2.44	BDS ISO 1144:
				b) Weft yarn count -	from 2.2 to 2.44	
			Ends and Picks per cm-	a) Ends per cm -	from 40 to 43	BDS ISO 7211-2:2008
b) Picks per cm -	from 40 to 43					
Material (Purity of silk fibers)			BDS 1467: 2021 (Anneex-F-4)			
18 (vii)	Silk Fabrics [Type: Chiffon] (Non-thrown silk warp and twisted weft is used.)	BDS 1467: 2021	The length of fabric cm -		≥ As declared	BDS ISO 22198:2009
			The width of fabric cm -		As declared ± 2%	BDS ISO 22198:2009
			Mass of Fabric (GSM)		from 16 to 26	BDS ISO 3801:2010
			Yarn Count in Tex	a) Warp yarn count -	from 2.2 to 2.44	BDS ISO 1144:
				b) Weft yarn count -	from 2.2 to 2.44	
			Ends and Picks per cm-	a) Ends per cm -	from 40 to 51	BDS ISO 7211-2:2008
b) Picks per cm -	from 40 to 51					
Material (Purity of silk fibers)			BDS 1467: 2021 (Anneex-F-4)			

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
18 (viii)	Silk Fabrics [Type: Georgette] (Both warp and weft S and Z twist TPM 1500 and above)	BDS 1467: 2021	The length of fabric cm -		≥ As declared	BDS ISO 22198:2009
			The width of fabric cm -		As declared ± 2%	BDS ISO 22198:2009
			Mass of Fabric (GSM)		from 16 to 20	BDS ISO 3801:2010
			Yarn Count in Tex	a) Warp yarn count -	from 2.2 to 2.44	BDS ISO 1144:
				b) Weft yarn count -	from 2.2 to 2.44	
			Ends and Picks per cm-	a) Ends per cm -	from 40 to 48	BDS ISO 7211-2:2008
				b) Picks per cm -	from 40 to 48	
Material (Purity of silk fibers)			BDS 1467: 2021 (Annex-F-4)			
18 (ix)	Silk Fabrics [Type: Cotton Silk (Silk not less than 25%)]	BDS 1467: 2021	The length of fabric cm -		≥ As declared	BDS ISO 22198:2009
			The width of fabric cm -		As declared ± 2%	BDS ISO 22198:2009
			Mass of Fabric (GSM)		As declared	BDS ISO 3801:2010
			Yarn Count in Tex	a) Warp yarn count -	As declared	BDS ISO 1144:
				b) Weft yarn count -	As declared	
			Ends and Picks per cm-	a) Ends per cm -	As declared	BDS ISO 7211-2:2008
				b) Picks per cm -	As declared	
Material (Purity of silk fibers)			BDS 1467: 2021 (Annex-F-4)			
18 (x)	Silk Fabrics [Type: Decorated silk fabric]	BDS 1467: 2021	The length of fabric cm -		≥ As declared	BDS ISO 22198:2009
			The width of fabric cm -		As declared ± 2%	BDS ISO 22198:2009
			Mass of Fabric (GSM)		As declared	BDS ISO 3801:2010
			Yarn Count in Tex	a) Warp yarn count -	As declared	BDS ISO 1144:
				b) Weft yarn count -	As declared	
			Ends and Picks per cm-	a) Ends per cm -	As declared	BDS ISO 7211-2:2008
				b) Picks per cm -	As declared	
Material (Purity of silk fibers)			BDS 1467: 2021 (Annex-F-4)			

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (i)	Textiles -synthetic Mosquito Nets Single Nets (Variety-1) (Mesh-156) (Coloured)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		70 ± 3	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		21 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
			Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)
19 (ii)	Textiles -synthetic Mosquito Nets Single Nets (Variety-1) (Mesh-196) (Coloured)	BDS 1882:2014	Dimension-Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension-Width of Mosquito net in cm		70 ± 3	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		27 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 31 to 36	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets-Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
			Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (iii)	Textiles -synthetic Mosquito Nets Single Nets (Variety-2) (Mesh-156) (Coloured)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		70 ± 3	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		from (28g -2.5 %) to (28g + 5%)	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
			Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)
19 (iv)	Textiles -synthetic Mosquito Nets Single Nets (Variety-2) (Mesh-196) (Coloured)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		70 ± 3	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		37 ± 2.5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 31 to 36	BDS 956 (Annexure B)

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
			Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)
19 (v)	Textiles -synthetic Mosquito Nets Single Nets (Variety-3) (Mesh-156) (Coloured)	BDS 1882: 2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		70 ± 3	BDS ISO 22198:2009
			Dimension- Overall Height of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		40 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)			

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (vi)	Textiles -synthetic Mosquito Nets Single Nets (Variety-3) (Mesh-196) (Coloured)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		70 ± 3	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		60 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 31 to 36	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
			Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)
19 (vii)	Textiles -synthetic Mosquito Nets Double Nets (Variety-1) (Mesh-156) (Coloured)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		100 ± 4	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		21 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
			Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (viii)	Textiles -synthetic Mosquito Nets Double Nets (Variety-1) (Mesh-196) (Coloured)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		100 ± 4	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		27 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 31 to 36	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)			
19 (ix)	Textiles -synthetic Mosquito Nets Double Nets (Variety-2) (Mesh-156) (Coloured)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		100 ± 4	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		from (28g -2.5 %) to (28g + 5%)	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)			

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (x)	Textiles -synthetic Mosquito Nets Double Nets (Variety-2) (Mesh-196) (Coloured)	BDS 1882: 2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		100 ± 4	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		37 ± 2.5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 31 to 36	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
			Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)
19 (xi)	Textiles -synthetic Mosquito Nets Double Nets (Variety-3) (Mesh-156) (Coloured)	BDS 1882: 2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		100 ± 4	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		40 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
			Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (xii)	Textiles -synthetic Mosquito Nets Double Nets (Variety- 3) (Mesh- 196) (Coloured)	BDS 1882: 2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		100 ± 4	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		60 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 31 to 36	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)			
19 (xiii)	Textiles -synthetic Mosquito Nets Family Nets (Variety- 1) (Mesh- 156) (Coloured)	BDS 1882: 2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		130 ± 5	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		21 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)			

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (xiv)	Textiles -synthetic Mosquito Nets Family Nets (Variety- 1) (Mesh- 196) (Coloured)	BDS 1882: 2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		130 ± 5	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		27 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 31 to 36	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
			Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)
19 (xv)	Textiles -synthetic Mosquito Nets Family Nets (Variety- 2) (Mesh- 156) (Coloured)	BDS 1882: 2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		130 ± 5	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		from (28g -2.5 %) to (28g + 5%)	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
			Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (xvi)	Textiles -synthetic Mosquito Nets Family Nets (Variety-2) (Mesh-196) (Coloured)	BDS 1882: 2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		130 ± 5	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		37 ± 2.5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 31 to 36	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)			
19 (xvii)	Textiles -synthetic Mosquito Nets Family Nets (Variety-3) (Mesh-156) (Coloured)	BDS 1882: 2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		130 ± 5	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		40 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)			

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (xviii)	Textiles -synthetic Mosquito Nets Family Nets (Variety-3) (Mesh-196) (Coloured)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		130 ± 5	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		37 ± 2.5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		60 ± 5 %	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)			
19 (xix)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety-1) (Mesh-156) (Coloured)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		190 ± 4	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		21 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)			

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (xx)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety-1) (Mesh-196) (Coloured)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		190 ± 4	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		27 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 31 to 36	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)			
19 (xxi)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety-2) (Mesh-156) (Coloured)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		190 ± 4	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		from (28g -2.5 %) to (28g + 5%)	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)			

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (xxii)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety-2) (Mesh-196) (Coloured)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		190 ± 4	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		37 ± 2.5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 31 to 36	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)			
19 (xxiii)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety-3) (Mesh-156) (Coloured)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		190 ± 4	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		40 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)			

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (xxiv)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety-3) (Mesh-196) (Coloured)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		190 ± 4	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		60 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 31 to 36	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		5	BDS ISO 105 B01:2003
Colour fastness to Washing (C3) (Change in colour)		4	BDS ISO 105 C 10:2010 (C3)			
19 (xxv)	Textiles -synthetic Mosquito Nets Single Nets (Variety-1) (Mesh-156) (White)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		70 ± 3	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		21 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (xxvi)	Textiles -synthetic Mosquito Nets Single Nets (Variety-1) (Mesh-196) (White)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		70 ± 3	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		27 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 31 to 36	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
19 (xxvii)	Textiles -synthetic Mosquito Nets Single Nets (Variety-2) (Mesh-156) (White)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		70 ± 3	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		from (28g -2.5 %) to (28g + 5%)	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (xxviii)	Textiles -synthetic Mosquito Nets Single Nets (Variety-2) (Mesh-196) (White)	BDS 1882: 2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		70 ± 3	BDS ISO 22198:2009
			Dimension- Overall Height of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		37 ± 2.5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 31 to 36	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
19 (xxix)	Textiles -synthetic Mosquito Nets Single Nets (Variety-3) (Mesh-156) (White)	BDS 1882: 2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		70 ± 3	BDS ISO 22198:2009
			Dimension- Overall Height of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		40 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (xxx)	Textiles -synthetic Mosquito Nets Single Nets (Variety- 3) (Mesh- 196) (White)	BDS 1882: 2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		70 ± 3	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		60 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 31 to 36	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
19 (xxxi)	Textiles -synthetic Mosquito Nets Double Nets (Variety- 1) (Mesh- 156) (White)	BDS 1882: 2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		100 ± 4	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		21 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (xxxii)	Textiles -synthetic Mosquito Nets Double Nets (Variety-1) (Mesh-196) (White)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		100 ± 4	BDS ISO 22198:2009
			Dimension- Overall Height of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		27 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 31 to 36	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
19 (xxxiii)	Textiles -synthetic Mosquito Nets Double Nets (Variety-2) (Mesh-156) (White)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		100 ± 4	BDS ISO 22198:2009
			Dimension- Overall Height of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		from (28g -2.5 %) to (28g + 5%)	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (xxxiv)	Textiles -synthetic Mosquito Nets Double Nets (Variety-2) (Mesh-196) (White)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		100 ± 4	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		37 ± 2.5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 31 to 36	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
19 (xxxv)	Textiles -synthetic Mosquito Nets Double Nets (Variety-3) (Mesh-156) (White)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		100 ± 4	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		40 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (xxxvi)	Textiles -synthetic Mosquito Nets Double Nets (Variety-3) (Mesh-196) (White)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		100 ± 4	BDS ISO 22198:2009
			Dimension- Overall Height of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		60 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 31 to 36	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
19 (xxxvii)	Textiles -synthetic Mosquito Nets Family Nets (Variety-1) (Mesh-156) (White)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		130 ± 5	BDS ISO 22198:2009
			Dimension- Overall Height of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		21 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (xxxviii)	Textiles -synthetic Mosquito Nets Family Nets (Variety-1) (Mesh-196) (White)	BDS 1882: 2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		130 ± 5	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		27 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 31 to 36	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
19 (xxxix)	Textiles -synthetic Mosquito Nets Family Nets (Variety-2) (Mesh-156) (White)	BDS 1882: 2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		130 ± 5	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		from (28g -2.5 %) to (28g + 5%)	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (xl)	Textiles -synthetic Mosquito Nets Family Nets (Variety-2) (Mesh-196) (White)	BDS 1882: 2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		130 ± 5	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		37 ± 2.5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 31 to 36	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
19 (xli)	Textiles -synthetic Mosquito Nets Family Nets (Variety-3) (Mesh-156) (White)	BDS 1882: 2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		130 ± 5	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		40 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (xlii)	Textiles -synthetic Mosquito Nets Family Nets (Variety-3) (Mesh-196) (White)	BDS 1882: 2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		130 ± 5	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		37 ± 2.5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		60 ± 5 %	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
19 (xliii)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety-1) (Mesh-156) (White)	BDS 1882: 2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		190 ± 4	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		21 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (xliv)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety-1) (Mesh-196) (White)	BDS 1882: 2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		190 ± 4	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		27 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 31 to 36	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
19 (xlv)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety-2) (Mesh-156) (White)	BDS 1882: 2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		190 ± 4	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		from (28g -2.5 %) to (28g + 5%)	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (xlvi)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety-2) (Mesh-196) (White)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		190 ± 4	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		37 ± 2.5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 31 to 36	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
19 (xlvii)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety-3) (Mesh-156) (White)	BDS 1882:2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		190 ± 4	BDS ISO 22198:2009
			Dimension- OverallHeight of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		40 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 28 to 33	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
19 (xlviii)	Textiles -synthetic Mosquito Nets X-Family Nets (Variety-3) (Mesh-196) (White)	BDS 1882: 2014	Dimension- Length of Mosquito net in cm		210 ± 5	BDS ISO 22198:2009
			Dimension- Width of Mosquito net in cm		190 ± 4	BDS ISO 22198:2009
			Dimension- Overall Height of Mosquito net (including bottom reinforcement piece) in cm		150 ± 5	BDS ISO 22198:2009
			Dimension- Height of reinforcement in cm		28 ± 3	BDS ISO 22198:2009
			Mass GSM (Weight per unit area)		60 ± 5 %	BDS ISO 3801:2010
			No. of holes along base plus bias within 6.25 sq.cm area		from 31 to 36	BDS 956 (Annexure B)
			Joined nets- No. of joint			BDS 1882:2014
			Joined nets- Width of Panel in cm		≥ 100 cm (or 1m)	BDS ISO 22198:2009
			pH value of Aqueous extract		6.0-7.5	BDS ISO 3071:2006
20 (i)	Towels and Towelling- Terry (Machine Wash) (Coloured)	BDS 1898: 2015	Dimension- Length in cm			BDS ISO 22198:2009
			Dimension- Width in cm			BDS ISO 22198:2009
			Breaking load on (5×20) cm strips (ravelled strip method) in Newton	a) Warp way-	255 - 310 N	BDS ISO 13934-1:2020
				b) Weft way-	255 - 310 N	
			Shrinkage or elongation (Dimensional Stability to machine Washing/ Laundering) in percentage	a) Warp way-	Maximum 2%	BDS ISO 6330:2020, BDS ISO 3759:2019, BDS ISO 5077:2008
				b) Weft way-	3-4	
			pH of aqueous extract		5.5 to 8.5	BDS ISO 3071:2006
			Wettability in second		Maximum 10s	BDS 198
			Maximum heading depth in cm			BDS 1898:2015
			Transverse ends or End hems in cm			BDS 1898:2016
			Side Edge in cm			BDS 1898:2017
			Colour fastness test to Light (Sunlight)		5 or better	BDS ISO 105 B01:2003
			Colour fastness to Washing (C3)	i) Change in colour	4	BDS ISO 105 C 10:2010 (C3)
				ii) Staining Acetate	3-4	
iii) Staining Cotton	3-4					
iv) Staining Nylon	3-4					
v) Staining Polyester	3-4					
vi) Staining Acrylic	3-4					
vii) Staining Wool	3-4					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
20 (ii)	Towels and Towelling-Terry (Machine Wash) (White)	BDS 1898:2015	Dimension- Length in cm			BDS ISO 22198:2009
			Dimension- Width in cm			BDS ISO 22198:2009
			Breaking load on (5×20) cm strips (ravelled strip method) in Newton	a) Warp way-	255 - 310 N	BDS ISO 13934-1:2020
				b) Weft way-	255 - 310 N	
			Shrinkage or elongation (Dimensional Stability to machine Washing/ Laundering) in percentage	a) Warp way-	Maximum 2%	BDS ISO 6330:2020, BDS ISO 3759:2019, BDS ISO 5077:2008
				b) Weft way-	3-4	
			pH of aqueous extract		5.5 to 8.5	BDS ISO 3071:2006
			Wettability in second		Maximum 10s	BDS 198
			Maximum heading depth in cm			BDS 1898:2015
			Transverse ends or End hems in cm			BDS 1898:2016
Side Edge in cm			BDS 1898:2017			
20 (iii)	Towels and Towelling-Huck-a-Back (Machine Wash) (Coloured)	BDS 1898:2015	Dimension- Length in cm			BDS ISO 22198:2009
			Dimension- Width in cm			BDS ISO 22198:2009
			Breaking load on (5×20) cm strips (ravelled strip method) in Newton	a) Warp way-	392 - 490 N	BDS ISO 13934-1:2020
				b) Weft way-	255 - 310 N	
			Shrinkage or elongation (Dimensional Stability to machine Washing/ Laundering) in percentage	a) Warp way-	Maximum 2%	BDS ISO 6330:2020, BDS ISO 3759:2019, BDS ISO 5077:2008
				b) Weft way-	3-4	
			pH of aqueous extract		5.5 to 8.5	BDS ISO 3071:2006
			Wettability in second		Maximum 10s	BDS 198
			Maximum heading depth in cm			BDS 1898:2015
			Transverse ends or End hems in cm			BDS 1898:2016
			Side Edge in cm			BDS 1898:2017
			Colour fastness test to Light (Sunlight)		5 or better	BDS ISO 105 B01:2003
			Colour fastness to Washing (C3)	i) Change in colour	4	BDS ISO 105 C 10:2010 (C3)
				ii) Staining Acetate	3-4	
iii) Staining Cotton	3-4					
iv) Staining Nylon	3-4					
v) Staining Polyester	3-4					
vi) Staining Acrylic	3-4					
vii) Staining Wool	3-4					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
20 (iv)	Towels and Towelling- Huck-a-Back (Machine Wash) (White)	BDS 1898:2015	Dimension- Length in cm			BDS ISO 22198:2009
			Dimension- Width in cm			BDS ISO 22198:2009
			Breaking load on (5×20) cm strips (ravelled strip method) in Newton	a) Warp way-	392 - 490 N	13934-1:2020
				b) Weft way-	255 - 310 N	
			Shrinkage or elongation (Dimensional Stability to machine Washing/ Laundering) in percentage	a) Warp way-	Maximum 2%	BDS ISO 6330:2020, BDS ISO 3759:2019, BDS ISO 5077:2008
				b) Weft way-	3-4	
			pH of aqueous extract		5.5 to 8.5	BDS ISO 3071:2006
			Wettability in second		Maximum 10s	BDS 198
			Maximum heading depth in cm			BDS 1898:2015
Transverse ends or End hems in cm			BDS 1898:2016			
Side Edge in cm			BDS 1898:2017			
21 (i)	Disposable Diapers [Baby Diaper, Size- XS (New Born)]	BDS 2006:2022	Rate of absorption per gush, min, (max)		2.5	BDS 2006:2022
			Absorptive capacity		No Leakage	BDS 2006:2022
			Rewet under load in g (max)		4	BDS 2006:2022
			pH Value.		6.0-8.5	BDS 2006:2022
21 (ii)	Disposable Diapers [Baby Diaper, S (Small size)]	BDS 2006:2022	Rate of absorption per gush, min, (max)		4	BDS 2006:2022
			Absorptive capacity		No Leakage	BDS 2006:2022
			Rewet under load in g (max)		5	BDS 2006:2022
			pH Value.		5.5-8.5	BDS 2006:2022
21 (iii)	Disposable Diapers [Baby Diaper, Size- M (Medium size)]	BDS 2006:2022	Rate of absorption per gush, min, (max)		5	BDS 2006:2022
			Absorptive capacity		No Leakage	BDS 2006:2022
			Rewet under load in g (max)		7	BDS 2006:2022
			pH Value.		5.5-8.5	BDS 2006:2022

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
21 (iv)	Disposable Diapers [Baby Diaper, Size- L (Large size)]	BDS 2006:2022	Rate of absorption per gush, min, (max)		5	BDS 2006:2022
			Absorptive capacity		No Leakage	BDS 2006:2022
			Rewet under load in g (max)		8	BDS 2006:2022
			pH Value.		5.5-8.5	BDS 2006:2022
21 (v)	Disposable Diapers [Baby Diaper, Size- XL (Extra Large size)]	BDS 2006:2022	Rate of absorption per gush, min, (max)		5	BDS 2006:2022
			Absorptive capacity		No Leakage	BDS 2006:2022
			Rewet under load in g (max)		10	BDS 2006:2022
			pH Value.		5.5-8.5	BDS 2006:2022
21 (vi)	Disposable Diapers [Baby Diaper, Size- size XXL (Extra Extra Large size)]	BDS 2006:2022	Rate of absorption per gush, min, (max)		6	BDS 2006:2022
			Absorptive capacity		No Leakage	BDS 2006:2022
			Rewet under load in g (max)		12	BDS 2006:2022
			pH Value.		5.5-8.5	BDS 2006:2022
21 (vii)	Disposable Diapers [Adult Diaper, Size- M]	BDS 2006:2022	Rate of absorption per gush, min, (max)		15	BDS 2006:2022
			Absorptive capacity		No Leakage	BDS 2006:2022
			Rewet under load in g (max)		12	BDS 2006:2022
			pH Value.		5.5-8.5	BDS 2006:2022
21 (viii)	Disposable Diapers [Adult Diaper, Size- L]	BDS 2006:2022	Rate of absorption per gush, min, (max)		15	BDS 2006:2022
			Absorptive capacity		No Leakage	BDS 2006:2022
			Rewet under load in g (max)		12	BDS 2006:2022
			pH Value.		5.5-8.5	BDS 2006:2022
22	Specification for Cotton Long Cloth	BDS 64:2015	Blend Composition (Cotton) in percent		(As agreed) ($\pm 3\%$)	BDS ISO 1833 - 11
			Dimensional Stability to machine Washing/ Laundering -Fabric Shrinkage or elongation in percent	a) Warp way-	Maximum 2%	(Wash-4N, Machine type-A) BDS ISO 6330:2020, BDS ISO 3759:2019, BDS ISO 5077:2008
				b) Weft way-	Maximum 2%	
			pH of aqueous extract		6.00 to 8.00	BDS ISO 3071:2006
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Washing (D4)	i) Change in colour	4 or better	BDS ISO 105 C 10:2010 (D4)
				ii) Staining Tri -Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
vi) Staining Acrylic	4 or better					
vii) Staining Viscose	4 or better					

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
23	Specification for Cotton Long Cloth	BDS 951:2012	pH of aqueous extract		6.00 to 8.00	BDS ISO 3071:2006
			Dimensional Stability to machine Washing/ Laundering -Fabric Shrinkage or elongation in percent	a) Warp way-	Maximum 2%	(Wash-4N, Machine type-A) BDS ISO 6330:2020, BDS ISO 3759:2019, BDS ISO 5077:2008
				b) Weft way-	Maximum 2%	
			Colour fastness test to Light (Sunlight)		5 or better	BDS ISO 105 B01:2003
			Colour fastness to Rubbing/Crocking	a) Dry rub-	4	BDS ISO 105 X 12:2017
				b) Wet rub-	3-4	
			Colour fastness to Washing (D4)	i) Change in colour	4 or better	BDS ISO 105 C 10:2010 (D4)
				ii) Staining Tri -Acetate	3 or better	
				iii) Staining Cotton	3 or better	
				iv) Staining Nylon	3 or better	
				v) Staining Polyester	3 or better	
vi) Staining Acrylic	3 or better					
vii) Staining Viscose	3 or better					
24	Specification for Jamdani Sharee	BDS 1920:2016	pH of aqueous extract		6.00 to 8.00	BDS ISO 3071:2006
			Dimensional Stability to machine Washing/ Laundering -Fabric Shrinkage or elongation in percent	a) Warp way-	Maximum 4%	(Wash-4N, Machine type-A) BDS ISO 6330:2020, BDS ISO 3759:2019, BDS ISO 5077:2008
				b) Weft way-	Maximum 4%	
			Colour fastness test to Light (Sunlight)		5 or better	BDS ISO 105 B01:2003
			Colour fastness to Perspiration	i) Acidic-Change in colour	4	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4	
				iii) Acidic-Staining Cotton	4	
				iv) Acidic-Staining Nylon	4	
				v) Acidic-Staining Polyester	4	
				vi) Acidic-Staining Acrylic	4	
				vii) Acidic-Staining Wool	4	
				viii) Alkaline-Change in colour	4	
				ix) Alkaline-Staining Acetate	4	
				x) Alkaline-Staining Cotton	4	
				xi) Alkaline-Staining Nylon	4	
				xii) Alkaline-Staining Polyester	4	
				xiii) Alkaline-Staining Acrylic	4	
xiv) Alkaline-Staining Wool	4					
Colour fastness to Washing (A1)	i) Change in colour	4 or better	BDS ISO 105 C 10:2010 (A1)			
	ii) Staining Acetate	4 or better				
	iii) Staining Cotton	4 or better				
	iv) Staining Nylon	4 or better				
	v) Staining Polyester	4 or better				
	vi) Staining Acrylic	4 or better				
	vii) Staining Wool	4 or better				

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
25	Specification for Reusable Sanitary Napkin	BDS 2024: 2024	pH of aqueous extract		5.5 to 8.5	BDS 2024:2024 (Annex B)
			Dimension- Length in mm		As declared ± 10	BDS 2024:2024
			Dimension- Width in mm		Minimum 55mm	BDS 2024:2024
			Dimensional Stability to machine Washing/ Laundering -Fabric Shrinkage or elongation in percent	a) Warp way-	Maximum 4%	(Wash-4N, Machine type-A) BDS ISO 6330:2020, BDS ISO 3759:2019, BDS ISO 5077:2008
				b) Weft way-	Maximum 4%	
			Ability to Withstand Pressure after Absorption. (Reusable Sanitary Napkin)		No Leakage	BDS 2024:2024 (Annex D)
			Colour fastness to Perspiration of Top Sheet	i) Acidic-Change in colour	4	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4	
				iii) Acidic-Staining Cotton	4	
				iv) Acidic-Staining Nylon	4	
				v) Acidic-Staining olyester	4	
				vi) Acidic-Staining Acrylic	4	
				vii) Acidic-Staining Wool	4	
				viii) Alkaline-Change in colour	4	
				ix) Alkaline-Staining Acetate	4	
x) Alkaline-Staining Cotton	4					
xi) Alkaline-Staining Nylon	4					
xii) Alkaline-Staining Polyester	4					
xiii) Alkaline-Staining Acrylic	4					
xiv) Alkaline-Staining Wool	4					
Colour fastness to Washing of Top Sheet (A1M)	i) Change in colour	4 or better	BDS ISO 105 C 06 (A1M)			
	ii) Staining Acetate	4 or better				
	iii) Staining Cotton	4 or better				
	iv) Staining Nylon	4 or better				
	v) Staining Polyester	4 or better				
	vi) Staining Acrylic	4 or better				
	vii) Staining Wool	4 or better				

S/L	Product Name	Standard	Parameter	Sub Parameter	Standard Limit	Method
26 (i)	Cotton Sewing Threads-White	BDS 33: 1989 (Reaffirm: 2005)	Total Length of yarn in package in meter		*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn		*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		*-text field-*	BDS 1221 : 2011
			Twist of yarn- Direct counting method		*-text field-*	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method		*-text field-*	BDS ISO 2060:1998
26 (ii)	Cotton Sewing Threads- Coloured	BDS 33: 1989 (Reaffirm: 2005)	Total Length of yarn in package in meter		*-text field-*	BDS 1221 : 2011
			Determination of Single End Breaking Force of Yarn		*-text field-*	BDS ISO 2062:2014
			No. of plies (Yarn/ Thread)		*-text field-*	BDS 1221 : 2011
			Twist of yarn- Direct counting method		*-text field-*	BDS ISO 2061:2011
			Determination of linear density of yarn by skein method		*-text field-*	BDS ISO 2060:1998
			Colour fastness test to Light (Sunlight)		4 or better	BDS ISO 105 B01:2003
			Colour fastness to Laundering (A2S)	i) Change in colour	4 or better	BDS ISO 105 C 06:2009 (A2S)
				ii) Staining Acetate	4 or better	
				iii) Staining Cotton	4 or better	
				iv) Staining Nylon	4 or better	
				v) Staining Polyester	4 or better	
				vi) Staining Acrylic	4 or better	
				vii) Staining Wool	4 or better	
			Colour fastness to Perspiration	i) Acidic-Change in colour	4 or better	BDS ISO 105 E 04:2016
				ii) Acidic-Staining Acetate	4 or better	
				iii) Acidic-Staining Cotton	4 or better	
				iv) Acidic-Staining Nylon	4 or better	
v) Acidic-Staining Polyester	4 or better					
vi) Acidic-Staining Acrylic	4 or better					
vii) Acidic-Staining Wool	4 or better					
viii) Alkaline-Change in colour	4 or better					
ix) Alkaline-Staining Acetate	4 or better					
x) Alkaline-Staining Cotton	4 or better					
xi) Alkaline-Staining Nylon	4 or better					
xii) Alkaline-Staining Polyester	4 or better					
xiii) Alkaline-Staining Acrylic	4 or better					
xiv) Alkaline-Staining Wool	4 or better					
Total Products =26 (Product variety=163)			Total Parameters =1298(one thousand two hundred ninety eight)			

N:B: text field means as per declaration.

Metrology Wing

National Metrology Laboratory (NML-BSTI)



Calibration of a pressure guage using a specialized hydraulic pressure balance



Calibration of a glassware



Calibration of a micrometer using sophisticated standard universal length measuring machine



Calibration of a E1 class 200g weight in a controlled environment

National Metrology Laboratory (NML-BSTI)+Metrology Wing

Calibration Facility of National Metrology Laboratory (NML-BSTI)+Metrology Wing

SI No.	Laboratory Name	Equipment Name	Range/Capacity	Parameter
1.	Mass Measurement Lab	Mass Standard (Weight)	1 mg – 10 kg (Class: E1, E2, F1, F2, M1, M2, M3)	01
2.	Balance Measurement Laboratory	Weighing Balance	Max: 100 kg	01
3.	Length and Dimension Measurement Laboratory	Steel Scale /Wooden Scale /Glass fiber Scale, Measuring Tape,	0-50 m	07
		Reference Standard Meter Bar	1 m	
		Gauge Block	Up to 100 mm	
		Length Bar	1 m	
		Vernier Calipers	Up to 1000 mm	
		Dial gauge	Up to 25 mm	
		Micrometer	Up to 25 mm	
4.	Temperature Laboratory	Liquid in Glass Thermometer	-50 to 300 degree C	06
		Dial Type Temperature Gauge	0 – 200 degree C	
		Digital Thermometer	-50 to 300 degree C	
		Temperature furnace	-50 to 1200 degree C	
		Dry Block Calibrator	-50 to 1200 degree C	
		Incubator	-50 to 1200 degree C	
5.	Pressure Measurement Laboratory	Hydraulic Pressure Measuring Instrument (Pressure Gauge)	0 to 1200 bar	03
		Pneumatic Pressure Measuring Instrument (Pressure Gauge)	0 to 1200 bar	
		Pneumatic/Blood Pressure Measuring Instrument	0 to 400 mmHg	
		Barometric Device	760 to 1150 mbar	
6.	Force Measurement Laboratory	Universal Testing Machine/Load Cell	Up to 3000 kN	03
		Torque Meter	Up to 200 N.m	
		Hand Torque Tools	200 N.m	
7.	Volume Measurement Laboratory	Volumetric Measure	Up to 5 L	02
		Micro Pipette	20 to 5000 micro L	
8.	Time Measurement Laboratory	Time interval/Stop Watch/Timer	Up to 24 hours	01
			Total	24

**Break up of Bangladesh Standards
(Up to June, 2024)**

Sl. No.	Division	BDS	ISO	IEC	ASTM	ISO/IEC	EN	CAC	OIC/SMIIC	Total (Division Wise)
01.	Agri. And Food Division	306	209	-	-	-	-	132	14	661
02.	Chemical Division	536	385	-	58	4	4	-	1	988
03.	Jute and Textile	334	450	-	-	-	2	-	1	787
04.	Electrical and Electronics Division	191	68	295	-	123	-	-	-	677
05.	Engineering Division	200	863	5	43	-	165	-	-	1276
Grand Total		1567	1975	300	101	127	171	132	16	4389

Management Systems Certification (MSC) Wing

Management Systems Certification (MSC) Wing

Activities:

BSTI operates Management Systems Certification service under the Management Systems Certification (MSC) Wing through the Bangladesh Standards and Testing Institution (Management Systems Certification) Regulation-2009.

BSTI provides third party accredited management systems certification against international standards to different industries and Service organizations without any discrimination to assist their business and commerce in Bangladesh. At present the scope of certification is ISO 9001 (Quality Management Systems), ISO 14001 (Environmental Management Systems), ISO 22000 (Food Safety Management Systems), ISO 27001 (Information Security Management Systems), ISO 45001 (Occupational Health and Safety Management Systems), ISO 50001 (Energy Management Systems), GMP(Good Manufacturing Practice) and HACCP (Hazard Analysis and Critical Control Points). In Bangladesh there are number of private certification agencies working for issuing systems certification. But BSTI is the only Govt. certification body (CB), which has started awarding Management Systems Certification among the domestic industry and service organizations,

Organization achieves ISO certificate at low cost from BSTI other than private and foreign certification organization. Formerly the Management Systems Certification of BSTI was accredited by the Norwegian Accreditation Authority in 2010 and continued 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 125 Certificates. Out of 125 Certificates, 85 for Quality Management Systems, 11 for Environmental Management Systems, 23 for Food Safety Management Systems, 01 for Occupational Health and Safety Management Systems, 04 for Hazard Analysis and Critical Control Points and 01 for Good Manufacturing Practice . In FY 2023-2024, total 42 following MSC have been awarded to different Industries/Companies.

Activities of BSTI Halal Certification



Bangladesh Standards and Testing Institution (BSTI) is the national standards and Certification body of Bangladesh. According to the Allocation of Business of different govt. ministry and dept.'s, of Bangladesh, BSTI serves the following 03 (three) jobs under the purview of the Ministry of Industries of Bangladesh-

1. *Standards and Quality Control,*
2. *Testing and Quality Control of Industrial and Commercial Products,*
3. *Standardization of weights and measures*

In light of allocation of business and based on the Rules and regulations, BSTI provides the Halal Certifications as per the SRO no. 279 Act/2022 under the Bangladesh Standards and Testing Institution Act, 2018, Mentionable, BSTI achieved the membership of the international Halal Standards organization '**Standards and Metrology Institute for Islamic Countries (SMIIC) of Turkey** which is mediated by OIC Muslim countries with the approval of Ministry of Industries.

As a national standards body BSTI has been formulating the Halal standards since 2003. Till to date, BSTI developed 19 (Nineteen) standards for Halal product, process, services and testing.

In purpose of the Halal certification operation, BSTI established dedicated personnel in all divisions (i.e. Standard, Testing, Certification dept.) of BSTI after published the regulation. BSTI has developed a good number of auditors who are skilled and trained on International Halal standards (OIC SMIIC 1, OIC SMIIC 2 OIC SMIIC 4 OIC SMIIC 6, OIC SMIIC 18 etc.). Apart from that they also trained up on the standards ISO 9001:2015, ISO 22000:2018, ISO/IEC 17065, ISO/IEC 17025) etc.

From March, 2022 to till date, BSTI has issued 125 (One hundred and twenty five) certificates against products and process of various renowned company of the country (List is enclosed).

To enhance the acceptance of Bangladeshi Halal products in global market BSTI has already taken the different initiatives. Such as, BSTI is already under process of Certification Accreditation under Bangladesh Accreditation Board (BAB). Mentionable, since 2012 BSTI product Certification was accredited by National Accreditation Board for Certification Bodies (NABCB), India.

Furthermore, BSTI has taken the initiatives to sign the Mutual Recognition of Arrangement (MRA) with some countries (i.e. Singapore, Malaysia) in order to access in the global market of Halal products.

