



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**



[Signature] 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.

ACCREDITATION SCHEME

(For Testing Laboratory)

CAB Name & Address:	Bangladesh Standards and Testing Institution (BSTI), Maan Bhaban, 116/Ka, Tejgaon Industrial Area, Dhaka-1208		
Accreditation Standard:	ISO/IEC 17025 : 2017	Accreditation Date:	31 Dec 2017
Certificate Number:	01.046.17	Issued on:	31 July 2024
Last Amended on:	NA	Valid until:	30 Dec 2026
Amendment no:	NA		

S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
Field: Chemical (Food)				
1.	Fruit Juice	Description	BDS 513:2013	Qualitative
2.		Brix level (soluble solids)	AOAC 932.12; ISO 2173:1978	1.00-85.00
3.		Acidity (as anhydrous citric /Malic acid)	AOAC 942.15	0.10-10.0% m/m
4.		Benzoic Acid content	AOAC 963.19, ISO 22855:2008	10-500 mg/kg
5.		Arsenic (as As) ,	AOAC 986.15	5-2000 µg/kg
6.		Lead (as Pb) ,	AOAC 999.10	5-2000 µg/kg
7.		Copper (as Cu) ,	AOAC 999.10	0.5-10 mg/kg
8.		Zinc (as Zn) ,	AOAC 999.10	0.25-10 mg/kg
9.		Tin (as Sn) ,	AOAC 985.16	5.0-25000 µg/kg
10.		Score point	BDS 513:2013	0-100
11.	Fruit Drinks	Description	BDS 1581:2015	Qualitative
12.		Soluble Solids	AOAC 932.12 ISO 2173:1978	1.00-85.00
13.		Acidity (as anhydrous citric acid)	AOAC 942.15	0.10-10.0% m/m
14.		Sulfurdioxide (SO ₂)	AOAC 812.02, BDS 1581: 2015 (2nd revision), App.-C	10-500 mg/kg
15.		Benzoic Acid content	AOAC 963.19, ISO 22855:2008	10-500 mg/kg
16.		Sorbic Acid	ISO 22855:2008	10-500 mg/kg
17.		Arsenic (as As) ,	AOAC 986.15	5-2000 µg/kg
18.		Lead (as Pb) ,	AOAC 999.10	5-2000 µg/kg
19.		Cadmium (as Cd),	AOAC 999.10	0.25-1000 µg/kg
20.		Tin (as Sn),	AOAC 985.16	5.0-25000 µg/kg
21.	Fruit Squash	Description	BDS 506:2002	Qualitative
22.		Brix level (soluble solids)	AOAC 932.12 ISO 2173:1978	1.00-85.00
23.		Acidity (as anhydrous citric acid)	AOAC 942.15	0.10-10.0% m/m


Quality Manager

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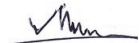
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Last Amended on: NA **Valid until:** 30 Dec 2026

Amendment no: NA

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24.	Fruit Syrup	Benzoic Acid content	AOAC 963.19, ISO 22855:2008	10-500 mg/kg
25.		Arsenic (as As) ,	AOAC 986.15	5-2000 µg/kg
26.		Lead (as Pb) ,	AOAC 999.10	5-2000 µg/kg
27.		Copper (as Cu) ,	AOAC 999.10	0.5-10 mg/kg
28.		Zinc (as Zn) ,	AOAC 999.10	0.25-10 mg/kg
29.		Tin (as Sn) ,	AOAC 985.16	5.0-25000 µg/kg
30.		Score point	BDS 506:2002	0-100
31.		Description	BDS 528: 2006	Qualitative
32.		Brix level (soluble solids)	AOAC 932.12 ISO 2173:1978	1.00-85.00
33.		Acidity (as anhydrous citric acid)	AOAC 942.15	0.10-10.0% m/m
34.		Benzoic Acid content	AOAC 963.19, ISO 22855:2008	10-500 mg/kg
35.		Sulfurdioxide (SO ₂)	AOAC 812.02 BDS 1581: 2015 (2nd revision), App.-C	10-500 mg/kg
36.		pH	AOAC 981.12	1.00-14.00
37.		Total Sugar	AOAC 920.183	0.50-100%
38.	Artificial Flavoured Drinks	Arsenic (as As) ,	AOAC 986.15	5-2000 µg/kg
39.		Lead (as Pb) ,	AOAC 999.10	5-2000 µg/kg
40.		Copper (as Cu) ,	AOAC 999.10	0.5-10 mg/kg
41.		Zinc (as Zn) ,	AOAC 999.10	0.25-10 mg/kg
42.		Tin (as Sn),	AOAC 985.16	5.0-25000 µg/kg
43.		Score point	BDS 528:2006	0-100
44.		Description	BDS 1877:2014	Qualitative
45.		Total soluble solid, %m/m	AOAC 932.12	1.00-85.00
46.		Total sugar (as sucrose), % m/m	AOAC 920.183 (b)	0.50-100%
47.		Acidity (as anhydrous citric acid), %m/m	AOAC 942.15	0.10-10.0% m/m
48.		Sulphur dioxide content, mg/kg	AOAC 812.02	10-500 mg/kg
49.		Benzoic acid content, mg/kg	ISO 22855:2008	10-500 mg/kg

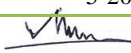

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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
50.		Arsenic(as As), mg/kg	AOAC 986.15	5-2000 µg/kg
51.		Lead (as Pb), mg/kg	AOAC 999.10	5-2000 µg/kg
52.		Copper (as Cu), mg/kg	AOAC 999.10	0.5-10 mg/kg
53.		Tin (as Sn) mg/kg	AOAC 985.16	5.0-25000 µg/kg
54.		Description	BDS 508: 2006,	Qualitative
55.		Brix level (soluble solids)	AOAC 932.12 ISO 2173:1978	1.00-85.00
56.	Fruit Cordial	Acidity (as anhydrous citric acid)	AOAC 942.15	0.10-10.0% m/m
57.		Benzoic Acid content	AOAC 963.19, ISO 22855:2008	10-500 mg/kg
58.		Sulfurdioxide (SO ₂)	AOAC 812.02 BDS 1581: 2015 (2nd revision), App.-C	10-500 mg/kg
59.		pH	AOAC 981.12	1.00-14.00
60.		Total Sugar	AOAC 920.183	1-75%
61.		Arsenic (as As) ,	AOAC 986.15	5-2000 µg/kg
62.		Lead (as Pb) ,	AOAC 999.10	5-2000 µg/kg
63.		Copper (as Cu) ,	AOAC 999.10	0.5-10 mg/kg
64.		Tin (as Sn) ,	AOAC 985.16	5.0-25000 µg/kg
65.		Description	BDS 508: 2006,	Qualitative
66.		Brix level (soluble solids)	AOAC 932.12 ISO 2173:1978	1.00-85.00
67.	Jam, Jelly, Marmalade	Sodium Benzoate	AOAC 963.19, ISO 22855:2008	10-500 mg/kg
68.		Sulfurdioxide (SO ₂)	AOAC 812.02 BDS 1581: 2015 (2nd revision), App.-C	10-500 mg/kg
69.		Lead (as Pb) ,	AOAC 999.10	5-2000 µg/kg
70.		Tin (as Sn) ,	AOAC 985.16	5.0-25000 µg/kg
71.		Description	BDS 512: 2017	Qualitative
72.		Total soluble solids (Salt free basis)	AOAC 932.12 ISO 2173:1978	1.00-85.00
73.		Acidity (as acetic acid)	AOAC 942.15	0.10-10.0% m/m
74.		Benzoic Acid content	AOAC 963.19, ISO 22855:2008	10-500 mg/kg
75.	Sauce	Arsenic (as As) ,	AOAC 986.15	5-2000 µg/kg

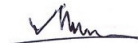

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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
76.	Pickle	Lead (as Pb) ,	AOAC 999.10	5-2000 µg/kg
77.		Copper (as Cu) ,	AOAC 999.10	0.5-10 mg/kg
78.		Zinc (as Zn) ,	AOAC 999.10	0.25-10 mg/kg
79.		Tin (as Sn) ,	AOAC 985.16	5.0-25000 µg/kg
80.		Score point	BDS 512: 2017	0-100
81.		Description	BDS CAC 260:2014	Qualitative
82.		Oil in the Product	BDS CAC 260:2014	1-60%
83.		pH	AOAC 981.12	1.00-14.00
84.		Sulfurdioxide (SO ₂)	AOAC 990.28	10-500 mg/kg
85.		Benzoic Acid content	AOAC 963.19 ISO 22855:2008	10-500 mg/kg
86.	Chutney	Acidity (as oleic acid)	AOAC 942.15	0.10-10.0% m/m
87.		Arsenic (as As) ,	AOAC 986.15	5-2000 µg/kg
88.		Lead (as Pb) ,	AOAC 999.10	5-2000 µg/kg
89.		Tin (as Sn) ,	AOAC 985.16	5.0-25000 µg/kg
90.		Description	BDS 521: 2011	Qualitative
91.		Brix level (soluble solids)	AOAC 932.12, ISO 2173:1978	1.00-85.00
92.		Fruit content (Retained on 2mm sieve)	BDS 521: 2011, App-A	1-60%
93.		Benzoic Acid content	AOAC 963.19, ISO 22855:2008	10-500 mg/kg
94.		Total ash,	BDS 521: 2011, App-B	0.1-10%
95.		Acid insoluble ash	BDS 521: 2011, App-C	0.01-5%
96.	Edible Jell	Arsenic (as As) ,	AOAC 986.15	5-2000 µg/kg
97.		Lead (as Pb) ,	AOAC 999.10	5-2000 µg/kg
98.		Copper (as Cu) ,	AOAC 999.10	0.5-10 mg/kg
99.		Zinc (as Zn) ,	AOAC 999.10	0.25-10 mg/kg
100.		Tin (as Sn),	AOAC 985.16	5.0-25000 µg/kg
101.		Score point	BDS 521: 2011	0-100
102.		Description	BDS 1801:2015	Qualitative
103.		Brix level (soluble solids)	AOAC 932.12, ISO 2173:1978	1.00-85.00
104.		Acidity (as anhydrous citric acid)	AOAC 942.15	0.10-10.0% m/m


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105.	Tomato Paste	Sodium Benzoate	AOAC 963.19, ISO 22855:2008	10-500 mg/kg
106.		pH	AOAC 981.12	1.00-14.00
107.		Arsenic (as As) ,	AOAC 986.15	5-2000 µg/kg
108.		Lead (as Pb) ,	AOAC 999.10	5-2000 µg/kg
109.		Copper (as Cu) ,	AOAC 999.10	0.5-10 mg/kg
110.		Zinc (as Zn) ,	AOAC 999.10	0.25-10 mg/kg
111.		Tin (as Sn),	AOAC 985.16	5.0-25000 µg/kg
112.		Iron (Fe),	AOAC 999.10	0.25-50 mg/kg
113.		Score point	BDS 1801:2015	0-100
114.		Description	BDS 517: 2015	Qualitative
115.		Total Solids (Tomato Solids) free of Salt	BDS 530:2002, App B	0.5-60%
116.		Benzoic Acid content	AOAC 963.19, ISO 22855:2008	10-500 mg/kg
117.		Arsenic (as As) ,	AOAC 986.15	5-2000 µg/kg
118.	Tomato Ketchup	Lead (as Pb) ,	AOAC 999.10	5-2000 µg/kg
119.		Copper (as Cu) ,	AOAC 999.10	0.5-10 mg/kg
120.		Zinc (as Zn) ,	AOAC 999.10	0.25-10 mg/kg
121.		Tin (as Sn) ,	AOAC 985.16	5.0-25000 µg/kg
122.		Score point	BDS 517:2015	0-100
123.		Description	BDS 530: 2002	Qualitative
124.		Brix level (soluble solids)	AOAC 932.12 ISO 2173:1978	1.00-85.00
125.		Acidity (as acetic acid)	AOAC 942.15	0.10-10.0% m/m
126.		Benzoic Acid content	AOAC 963.19, ISO 22855:2008	10-500 mg/kg
127.		Specific gravity	BDS 1010:2007, CL-9	1.001 (0.4°) - 1.23616 (50.8°)
128.		Arsenic (as As) ,	AOAC 986.15	5-2000 µg/kg
129.		Lead (as Pb) ,	AOAC 999.10	5-2000 µg/kg
130.		Copper (as Cu) ,	AOAC 999.10	0.5-10 mg/kg
131.		Zinc (as Zn) ,	AOAC 999.10	0.25-10 mg/kg
132.		Tin (as Sn),	AOAC 985.16	5.0-25000 µg/kg
133.		Score point	BDS 530:2002	0-100

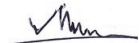
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
134.	Biscuits	Description	BDS 383: 2001 (2nd revision)	Qualitative
135.		Moisture	BDS 383: 2001 (2nd revision), App.-B	0.1—10%
136.		Acid Insoluble Ash	BDS 383: 2001 (2nd revision), App.-C	0.05—30%
137.		Edible Fat content	BDS 1564: 2016, Annex - D	0.5-50%
138.		Acidity of Extracted Fat	IS 1011: 2002 (4th revision), Annex-D	0.1—10%
139.		Arsenic (as As)	AOAC 986.15,	5-2000 µg/kg
140.		Lead (as Pb)	AOAC 999.10,	5-2000 µg/kg
141.		Cadmium (as Cd)	AOAC 999.10,	0.25-1000 µg/kg
142.		Nickel (Ni)	AOAC 971.20,	5-1000µg/kg
143.		Tin (as Sn)	AOAC 985.16,	0.005-10 mg/kg
144.		Organoleptic test	BDS 383: 2001 (2nd revision)	0-24
145.	Protein-Rich Biscuit	Description	BDS 1563: 2011	Qualitative
146.		Moisture	BDS 383: 2001 (2nd revision), App.-B	0.1—10%
147.		Acid Insoluble Ash	BDS 383: 2001 (2nd revision), App.-C	0.1—2%
148.		Edible Fat content	BDS 1564: 2016, Annex - D	0.5-50%
149.		Acidity of Extracted Fat (as oleic acid)	IS 1011: 2002 (4th revision), Annex.-D	0.1—10%
150.		Protein	BDS 1168: 2011, App-A	1.00—25.00%
151.	Chanachur	Moisture	BDS 1564:2016, Annex-A	0.1-25%
152.		Total ash	BDS 1564:2016, Annex-B	0.05-10%
153.		Acid insoluble ash	BDS 1564:2016, Annex-C	0.05-30%
154.		Fat	BDS 1564:2016, Annex--D	1-60%
155.		Acid value of extracted fat	BDS 1564:2016, Annex--E	0.5-30
156.		Chloride	BDS 1564:2016, Annex--F	0.1-20%
157.		Aflatoxin	SOP-BSTI/TP/B/7.2/19(ELISA methods)	0.4-45 µg/kg
158.		Iron	BDS 1564:2016, Annex--G/ AOAC 999.10,	5-1000 mg/kg
159.		Peroxide value	BDS 1556 : 2016, Annex-C	0.5-30
160.		Arsenic (as As)	AOAC 986.15,	5-2000 µg/kg
161.		Lead (as Pb)	AOAC 999.10,	5-2000 µg/kg
162.		Description	BDS 1106:2015	Qualitative

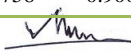

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163.	Noodles	Moisture	BDS 1106:2015, Annex-A	0.1-25%
164.		Acid value	BDS 1106:2015, Annex -B	0.1-10mg/gm
165.		Degree of gelatinization	BDS 1106:2015, Annex -C	1-100%
166.		Cooking time in minutes	BDS 1106:2015, Annex -D	0.5-30 minute
167.		Arsenic (as As)	AOAC 986.15,	5-2000 µg/kg
168.		Lead (as Pb)	AOAC 999.10,	5-2000 µg/kg
169.		Cadmium (as Cd)	AOAC 999.10,	0.25-1000 µg/kg
170.		Nickel(Ni)	AOAC 971.20,	5-1000µg/kg
171.		Tin (as Sn)	AOAC 985.16,	5.0-25000 µg/kg
172.	Instant Noodles	Description	BDS 1552:2015	Qualitative
173.		Moisture	BDS 1552:2015, Annex-A	0.1-25%
174.		Acid value (as KOH)	BDS 1552:2015, Annex -D	0.1-10mg/gm
175.		Protein content	BDS 1552:2015, Annex -C	0.5-40%
176.	Soft Drink Powder	Cooking time in minutes	BDS 1552:2015, Annex -B	0.5-30 minute
177.		Moisture	BDS 138:2006, App- E	0.05-10%
178.		Sulphated ash	BDS 138:2006, App- F	0.05-10%
179.		Acid Insoluble ash	BDS 490:2014, App- C	0.002-5%
180.	Carbonated Beverage	Acidity	BDS 1586:2007, App- C	0.1-30%
181.		Sugar Content (Brix)	AOAC 932.12: ISO 2173:1978	0-20%
182.		Water Extract,	BDS ISO 9768: 1994	0.1-100%
183.		Total Ash,	BDS ISO 1575: 2015	0.1-100%
184.	Black Tea	Water Soluble Ash as % of Total Ash,	BDS ISO 1576: 2015	0.1-100%
185.		Acid Insoluble Ash,	BDS ISO 1577: 2015	0.1-100%
186.		Alkalinity of Water Soluble Ash(as KOH),	BDS ISO 1578: 2008	0.1-100%
187.		Crude Fiber,	BDS ISO 5498: 1981	0.1-100%
188.	Edible Oil (Soybean, Palm Oil, Palm Olein, Rice Bran Oil, Sunflower Oil etc.)	Moisture & insoluble impurities, % m/m	BDS 1584:1997, CL-9 & 10	0.005 to 5.00
189.		Colour in 2.54 cm cell on the lovibond scale, expressed as (Y+5R), not deeper than.	BDS 1584:1997, CL-4/	1.00 to 50.00
190.		Refractive index at 40 °C	BDS 1584:1997, CL-7	1.4500 to 1.4800
191.		Relative density/Specific	BDS 1584:1997, CL-8, ISO 901 & 758	0.900 to 1.000


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		Gravity at 20/20°C, 27/27°C, 30/30°C/		
192.		Saponification value, (as KOH), mg/g	BDS 1584:1997, CL-15/	170.00 to 220.00
193.		Iodine value	BDS 1584:1997, CL-19/	35.00 to 150.00
194.		Acid value (as KOH)	BDS 1584:1997, CL-11	0.10 to 20.00
195.		Unsaponifiable matter,% m/m	BDS 1584:1997, CL-17	00 to 15.00
196.		Peroxide value, milliequivalents of oxygen per kg oil	BDS 1584:1997, CL-20/	0.20 to 20.00
197.		Vitamin-A, mg/kg	BDS 1769:2014; App-C	0.05- 50.00

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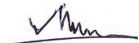
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Field: Chemical (Water)				
1.	Packaged Drinking Water & Natural Mineral Water	TDS	AOAC 973.40	0.00-19900.00 mg/L
2.		pH	AOAC 973.41	1.00-14.00
3.		Total Hardness as CaCO ₃	BDS 1414.2000 appendix-N	1-500 mg/L
4.		Copper (as Cu)	AOAC 993.14	5-160 µg/L
5.		Iron (Fe)	AOAC 993.14	5-160 µg/L
6.		Manganese (Mn)	AOAC 993.14	5-160 µg/L
7.		Zinc (as Zn),	AOAC 993.14	0.5-5.00 mg/L
8.		Lead (as Pb)	AOAC 993.14	5-160 µg/L
9.		Chromium (as Cr),	AOAC 993.14	5-160 µg/L


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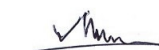
Certificate Number: 01.046.17 **Issued on:** 31 July 2024

Last Amended on: NA **Valid until:** 30 Dec 2026

Amendment no: NA

S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
10.		Conductivity	AOAC 973.40	0-199.9 ms
11.		Nitrate	APHA,4500-NO ₃	0 -50mg/L
12.		Chlorides (Cl)	AOAC 973.51	1-500 mg/L
13.		Fluoride,	4500-F.D. SPANDS Mehtod, APHA	0.10-5mg/L
14.		Calcium(Ca)	AOAC 993.14	0.5-5 mg/L
15.		Selenium(Se)	AOAC 993.14	5-160 µg/L
16.		Nickel(Ni)	AOAC 993.14	5-160 µg/L
17.		Cadmium (as Cd)	AOAC 993.14	5-160 µg/L
18.		Mercury (Hg)	AOAC 977.22	0.5-2µg/L
19.		Arsenic (as As)	AOAC 993.14	5-160 µg/L
20.		Barium (Ba)	AOAC 993.14	5-160 µg/L
21.		Sodium (Na)	AOAC 993.14	0.5-5.00 mg/L
22.		Colour	BDS 1240: 2001, App-B	0.5-10 Hazen unit
23.		Odour	BDS 1414:2000, App-B	Qualitative
24.		Taste	APHA 2160,2012	Qualitative
25.		Turbidity	BDS 1414:2000, App-U/ Instruction Manual of Turbidimeter.	0.1-1100 NTU
26.		Nitrite	APHA,4500-NO ₂	0.005-1mg/L
27.		Borate	AOAC 993.14	5-160 µg/L
28.		Magnesium (Mg)	AOAC 993.14	0.5-5.00 mg/L
29.		Hydrogen Sulfide	BDS 1414:2000, App-J/, APHA ,4500	0.02-5 mg/L

END



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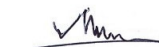
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
Field: Microbiological Testing				
1.	Drinking Water and Mineral water	Total bacterial count	BDS 1414: 2000, App.-L	≥ 1cfu/ml
2.		Total Coliform bacterial count	BDS 1414: 2000, App.-K	<1.1 MPN to >23 MPN/100ml
3.		E. coli in 250 ml	BDS ISO 9308-1	Present/Absent
4.		Salmonella in 100 ml	BDS ISO 6579-1	Present/Absent
5.		Shigella in 250 ml	ISO 21567	Present/Absent
6.		Yeasts and moulds in 250 ml	ISO 8199	≥ 10cfu/ml or gm
7.		Enterococci in 250 ml	ISO 7899-2	Present/Absent
8.	Fruit juice, Fruit Drinks, Tomato ketchup, Chutney, Fruit Squash, Fruit Syrup, Fruit Cordial, Edible Jell, Sauce, Tomato Paste, Artificial Flavoured Drinks, Soft Drink Powder, Carbonated Beverage	Total bacterial count	BDS 513: 2013, App.-D	≥ 10cfu/ml or gm
9.		Total Coliform bacterial count	BDS 513: 2013, App.-B	≥ 10cfu/ml or gm
10.		Yeast and Mould Count	BDS 1123: 2013, App.-D	≥ 10cfu/ml or gm
11.	Protein rich Biscuit	Total bacterial count	BDS 1083: 2006, App.-G	≥ 10cfu/ml or gm
12.		Total Coliform bacterial count	BDS 1083: 2006, App.H	≥ 10cfu/ml or gm

END



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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
Field: Chemical (Cement, MS Rod)				
1.	Cement	Loss on ignition	BDS EN 196 (part-2)	0.10-10 %m/m
2.		Insoluble residue	BDS EN 196 (part-2)	0.10-35% m/m
3.		Sulphate (SO ₃)	BDS EN 196 (part-2)	0.1-5 %m/m
4.		Chloride (Cl)	BDS EN 196 (part-21)	0.003-0.5 %m/m
5.	MS Rod	Carbon (C)	IS 228(Part-01): 1987 Volumetric method	0.05-0.6%
6.		Silicon (Si)	ASTM-350: 2012, Section-46	0.01-1%
7.		Manganese (Mn)	ASTM-350: 2012, Section-164	0.05-3%
8.		Sulphur (S)	IS 228(Part-9): 1989 Evolution method	0.01-0.1%
9.		Phosphorus (P)	ASTM-350:2012, Section- 172, Alkalimetric method	0.01-0.1%

END


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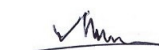
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
Field: Chemical (Soap, Shampoo)				
1.	Soap	Total fatty matter	BDS 406:1990, Clause No: 9,	20-90%
2.		Rosin acid,	BDS 406:1990 Clause No: 14,	0.5-10%
3.		Free caustic alkali, as sodium hydroxide (NaOH)	BDS 406:1990 Clause No: 6.2,	0.01-0.5%
4.		Matter insoluble in Alcohol	BDS 406:1990 Clause No: 5,	0.05-20%
5.		Chlorides, as sodium Chloride (NaCl)	BDS 406:1990 Clause No: 10,	0.01-3.00
6.		Lather, ml	IS 13498:1997 Annex-B	10-500 ml
7.		Free carbonated alkali,	BDS 406:1990 Clause No: 28,	0.1-3%
8.		Unsaponified fatty matter	SOP: BSTI/TP/SD/7.2/09	0.1-3%
9.		Matter insoluble in water	BDS 406:1990 Cl. no: 7	0.1-10%
10.		Odour	BDS 12:2014	Qualitative
11.		Lathering properties	BDS 12:2014	Qualitative
12.	Shampoo	pH	BDS 1269:2014, App-C	14.0

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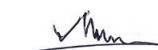
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
Field: Chemical (Textile)				
1.		Blend Composition of different fibres present	BDS ISO 1833 (1 To 4): 2023 BDS ISO 1833 – (5,7,11,12):2024 BDS ISO 1833-8 : 2012 BDS ISO 1833 – 16:2014 BDS ISO 1833 – 24:2017	2 - 100%
2.		pH of aqueous extract	BDS ISO 3071:2023	1 to 14
3.		Colour Fastness to Washing/Laundrying	BDS ISO 105 C 06:2009 BDS ISO 105 C 10:2010	Qualitative (Grade 1 to 5)
4.		Colour Fastness to Rubbing/Crocking	BDS ISO 105 X 12:2017	Qualitative (Grade 1 to 5)
5.		Colour Fastness to Water	BDS ISO 105 E 01:2016	Qualitative (Grade 1 to 5)
6.	Textiles and Garments	Colour Fastness to Sea Water	BDS ISO 105 E 02:2016	Qualitative (Grade 1 to 5)
7.		Colour Fastness to Perspiration	BDS ISO 105 E 04:2016	Qualitative (Grade 1 to 5)
8.		Colour Fastness to Dry cleaning	BDS ISO 105 D 01:2011	Qualitative (Grade 1 to 5)
9.		Test for water Repellency- Spray test	BDS ISO 4920:2012	(0 to100) 0 to 5
10.		Dimensional Stability to machine Washing/Laundrying ISO method	BDS ISO 6330: 2020 BDS ISO 3759:2019 & BDS ISO 5077:2008	-50% to 20%

END



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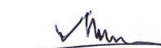
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
Field: Mechanical (Textile)				
1.	Textiles and Garments	Count (Linear density) of thread removed from fabric (Woven & Knitted)	BDS ISO 7211-5:2024	6 to 100 Tex
2.		Threads per unit length (Ends and Picks per inch)	BDS ISO 7211- 2:2008	40 - 800 per dm
3.		GSM (Weight per unit area or length)	BDS ISO 3801:2010	20 - 900 g/m ²
4.		Tensile Strength (Strip strength) and Elongation at break	BDS ISO 13934-1:2020	200 to 4500 N (Strength) 1 to 50% (Elongation)
5.		Tensile Strength (Grab strength) and Elongation at break	BDS ISO 13934-2:2020	200 to 4500 N (Strength) 1 to 50% (Elongation)
6.		Width of fabric	BDS ISO 22198:2009	1- 300 cm
7.		Tear strength	BDS ISO 13937-1:2005	5 to 54 N
8.		Martindale Abrasion Resistance	BDS ISO 12947-1: 2009 BDS ISO 12947-2: 2021	1000- 90,000 cycles
9.		Pilling resistance (Pill Box method)	BDS ISO 12945-1 :2009	Rating 1 to 5 (Qualitative)
10.		Seam Slippage and strength	BDS ISO 13935-1 & 2 :2015 BDS ISO 13936-1 & 2 : :2013	50 to 4500 N
11.	Textile Yarn	Determination of linear density of yarn by skein method	BDS ISO 2060:1998	5 to 300 Tex
12.	Textile Yarn	Determination of skein (lea) breaking strength and tenacity	BDS ISO 6939:1998	50 N to 4500 N
13.	Textile Yarn	Twist of yarn – Direct counting method	BDS ISO 2061:2020	20 to 3000 turns per meter
14.	Sewing Thread	Yarn Number and Strength and elongation of sewing thread	BDS ISO 2062:2014	5 to 300 Tex 50 to 5000 N (Strength) 5- 100 % (Elongation)

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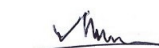
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
Field: Mechanical (Cement, MS Rod)				
1.	Cement (BDS EN 197 - 1:2003)	Compressive strength	BDS EN 196 -1:2013/ ISO 679:2009	5.0 Mpa – 70.0 MPa
2.		Initial setting Time	BDS EN 196 -3:2013/ ISO 9597:2008	30 min –300 minutes
3.		Soundness – by Le Chatelier	BDS EN 196 -3:2013/ ISO 9597:2008	0mm -10 mm
4.	Reinforcement Steel / M. S. Plate/ Angle/ G. I. Pipe (Tube)	Tensile strength	BDS ISO 6892-1: 2018 IS 1608:2005	10.0 – 1500.0 N/mm ²
5.		Yield strength	BDS ISO 6892-1: 2018 IS 1608:2005	10.0 – 1500.0 N/mm ²
6.		Elongation	BDS ISO 6892-1: 2018 IS 1608:2005	2.0 – 60.0 %
7.		Bend test	ISO 7438: 2008 IS 1599 :2006	Mandrel Size:(mm) 12.5,16,20,25,32,40, 50,63,80,100,125, 160 ,200 & 250
8.		Re-bend Test	ISO 10065:2006 & IS 1786:2008	Mandrel Size:(mm) 32,40,50,63,100,160, 200, 320 & 400
9.		Mass/meter	BDS ISO 6935-1& 2 : 2006; IS 1786: 2008	0.2 – 20.0 Kg/m

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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
Field: Electrical - Air conditioner (AC)				
1.	Air conditioner (AC)	Cooling Capacity in Watt	BDS 1852: 2022	1500W - 8800W (5000BTU/h- 30000BTU/h)
2.		Effective Power Input in Watt	BDS 1852: 2022	-
3.		EER/SEER Test	BDS 1852: 2022	-
4.		Star Rating Index	BDS 1852: 2022	1.0 to 5.0
5.		Power factor	BDS 1852: 2022	-1.0 to +1.0
6.		Maximum Cooling test	BDS 1852: 2022	1 Hour Cut (Within 3.0 min) 1 Hour
		a) 90% and 110% of rated voltage with a single nameplate rating.		
		b) 90% of the lower rated voltage and 110% of the higher rated voltage for units with a dual or extended nameplate rating.		
7.		Minimum cooling, freeze- up air blockage and freeze- up drip performance tests	BDS 1852: 2022	4 Hours
8.		Indoor side airflow rate at Minimum Cooling	BDS 1852: 2022	250 m³/h - 3600 m³/h
9.	Condensate control and enclosure sweat performance test	BDS 1852: 2022	4 Hours	

END



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