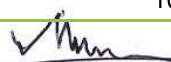


ACCREDITATION SCHEME

(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:	28 Jan 2021
Last Amended on:	NA	Valid until:	30 Dec 2023
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.		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% <i>m/m</i>
4.		Benzoic Acid content	AOAC 963.19, ISO 22855:2008	10-500 mg/kg
5.	Fruit Juice	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.		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% <i>m/m</i>
14.	Fruit Drinks	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.		Description	BDS 506:2002	Qualitative
22.	Fruit Squash	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% <i>m/m</i>
24.		Benzoic Acid content	AOAC 963.19,	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
			ISO 22855:2008	
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.	Fruit Syrup	pH	AOAC 981.12	1.00-14.00
37.		Total Sugar	AOAC 920.183	0.50-100%
38.		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 508: 2006,	Qualitative
45.		Brix level (soluble solids)	AOAC 932.12 ISO 2173:1978	1.00-85.00
46.	Fruit Cordial	Acidity (as anhydrous citric acid)	AOAC 942.15	0.10-10.0%/m/m
47.		Benzoic Acid content	AOAC 963.19, ISO 22855:2008	10-500 mg/kg
48.		Sulfurdioxide (SO ₂)	AOAC 812.02 BDS 1581: 2015 (2nd revision), App.-C	10-500 mg/kg
49.		pH	AOAC 981.12	1.00-14.00
50.	Total Sugar	AOAC 920.183	1-75%	



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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
51.		Arsenic (as As) ,	AOAC 986.15	5-2000 µg/kg
52.		Lead (as Pb) ,	AOAC 999.10	5-2000 µg/kg
53.		Copper (as Cu) ,	AOAC 999.10	0.5-10 mg/kg
54.		Tin (as Sn) ,	AOAC 985.16	5.0-25000 µg/kg
55.		Description	BDS 508: 2006,	Qualitative
56.		Brix level (soluble solids)	AOAC 932.12 ISO 2173:1978	1.00-85.00
57.	Jam, Jelly, Marmalade	Sodium Benzoate	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.		Lead (as Pb) ,	AOAC 999.10	5-2000 µg/kg
60.		Tin (as Sn) ,	AOAC 985.16	5.0-25000 µg/kg
61.		Description	BDS 512: 2017	Qualitative
62.		Total soluble solids (Salt free basis)	AOAC 932.12 ISO 2173:1978	1.00-85.00
63.		Acidity (as acetic acid)	AOAC 942.15	0.10-10.0% <i>m/m</i>
64.	Sauce	Benzoic Acid content	AOAC 963.19, ISO 22855:2008	10-500 mg/kg
65.		Arsenic (as As) ,	AOAC 986.15	5-2000 µg/kg
66.		Lead (as Pb) ,	AOAC 999.10	5-2000 µg/kg
67.		Copper (as Cu) ,	AOAC 999.10	0.5-10 mg/kg
68.		Zinc (as Zn) ,	AOAC 999.10	0.25-10 mg/kg
69.		Tin (as Sn) ,	AOAC 985.16	5.0-25000 µg/kg
70.		Score point	BDS 512: 2017	0-100
71.		Description	BDS CAC 260:2014	Qualitative
72.		Oil in the Product	BDS CAC 260:2014	1-60%
73.		pH	AOAC 981.12	1.00-14.00
74.	Pickle	Sulfurdioxide (SO ₂)	AOAC 990.28	10-500 mg/kg
75.		Benzoic Acid content	AOAC 963.19 ISO 22855:2008	10-500 mg/kg
76.		Acidity (as oleic acid)	AOAC 942.15	0.10-10.0% <i>m/m</i>
77.		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
78.		Lead (as Pb) ,	AOAC 999.10	5-2000 µg/kg
79.		Tin (as Sn) ,	AOAC 985.16	5.0-25000 µg/kg
80.		Description	BDS 521: 2011	Qualitative
81.		Brix level (soluble solids)	AOAC 932.12, ISO 2173:1978	1.00-85.00
82.		Fruit content (Retained on 2mm sieve)	BDS 521: 2011, App-A	1-60%
83.		Benzoic Acid content	AOAC 963.19, ISO 22855:2008	10-500 mg/kg
84.	Chutney	Total ash,	BDS 521: 2011, App-B	0.1-10%
85.		Acid insoluble ash	BDS 521: 2011, App-C	0.01-5%
86.		Arsenic (as As) ,	AOAC 986.15	5-2000 µg/kg
87.		Lead (as Pb) ,	AOAC 999.10	5-2000 µg/kg
88.		Copper (as Cu) ,	AOAC 999.10	0.5-10 mg/kg
89.		Zinc (as Zn) ,	AOAC 999.10	0.25-10 mg/kg
90.		Tin (as Sn),	AOAC 985.16	5.0-25000 µg/kg
91.		Score point	BDS 521: 2011	0-100
92.	Edible Jell	Description	BDS 1801:2015	Qualitative
93.		Brix level (soluble solids)	AOAC 932.12, ISO 2173:1978	1.00-85.00
94.		Acidity (as anhydrous citric acid)	AOAC 942.15	0.10-10.0% m/m
95.		Sodium Benzoate	AOAC 963.19, ISO 22855:2008	10-500 mg/kg
96.		pH	AOAC 981.12	1.00-14.00
97.		Arsenic (as As) ,	AOAC 986.15	5-2000 µg/kg
98.		Lead (as Pb) ,	AOAC 999.10	5-2000 µg/kg
99.		Copper (as Cu) ,	AOAC 999.10	0.5-10 mg/kg
100.		Zinc (as Zn) ,	AOAC 999.10	0.25-10 mg/kg
101.		Tin (as Sn),	AOAC 985.16	5.0-25000 µg/kg
102.		Iron (Fe),	AOAC 999.10	0.25-50 mg/kg
103.		Score point	BDS 1801:2015	0-100
104.		Description	BDS 517: 2015	Qualitative
105.		Total Solids (Tomato)	BDS 530:2002, App B	0.5-60%




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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
		Solids) free of Salt		
106.	Tomato Paste	Benzoic Acid content	AOAC 963.19, ISO 22855:2008	10-500 mg/kg
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.		Score point	BDS 517:2015	0-100
113.	Description	BDS 530: 2002	Qualitative	
114.	Brix level (soluble solids)	AOAC 932.12 ISO 2173:1978	1.00-85.00	
115.	Acidity (as acetic acid)	AOAC 942.15	0.10-10.0% ^m /m	
116.	Tomato Ketchup	Benzoic Acid content	AOAC 963.19, ISO 22855:2008	10-500 mg/kg
117.		Specific gravity	BDS 1010:2007, CL-9	1.001 (0.4°) - 1.23616 (50.8°)
118.		Arsenic (as As) ,	AOAC 986.15	5-2000 µg/kg
119.		Lead (as Pb) ,	AOAC 999.10	5-2000 µg/kg
120.		Copper (as Cu) ,	AOAC 999.10	0.5-10 mg/kg
121.		Zinc (as Zn) ,	AOAC 999.10	0.25-10 mg/kg
122.		Tin (as Sn),	AOAC 985.16	5.0-25000 µg/kg
123.	Score point	BDS 530:2002	0-100	
124.	Description	BDS 383: 2001 (2nd revision)	Qualitative	
125.	Moisture	BDS 383: 2001 (2nd revision), App.-B	0.1—10%	
126.	Acid Insoluble Ash	BDS 383: 2001 (2nd revision), App.-C	0.05—30%	
127.	Biscuits	Edible Fat content	BDS 1564: 2016, Annex - D	0.5-50%
128.		Acidity of Extracted Fat	IS 1011: 2002 (4th revision), Annex-D	0.1—10%
129.		Arsenic (as As)	AOAC 986.15,	5-2000 µg/kg
130.		Lead (as Pb)	AOAC 999.10,	5-2000 µg/kg
131.		Cadmium (as Cd)	AOAC 999.10,	0.25-1000 µg/kg
132.		Nickel (Ni)	AOAC 971.20,	5-1000µg/kg
133.		Tin (as Sn)	AOAC 985.16,	0.005-10 mg/kg



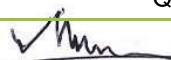
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
134.		Organoleptic test	BDS 383: 2001 (2nd revision)	0-24
135.		Description	BDS 1563: 2011	Qualitative
136.	Protein-Rich Biscuit	Moisture	BDS 383: 2001 (2nd revision), App.-B	0.1—10%
137.		Acid Insoluble Ash	BDS 383: 2001 (2nd revision), App.-C	0.1—2%
138.		Edible Fat content	BDS 1564: 2016, Annex - D	0.5-50%
139.		Acidity of Extracted Fat (as oleic acid)	IS 1011: 2002 (4th revision), Annex.-D	0.1—10%
140.		Protein	BDS 1168: 2011, App-A	1.00—25.00%
141.	Chanachur	Moisture	BDS 1564:2016, Annex-A	0.1-25%
142.		Total ash	BDS 1564:2016, Annex-B	0.05-10%
143.		Acid insoluble ash	BDS 1564:2016, Annex-C	0.05-30%
144.		Fat	BDS 1564:2016, Annex--D	1-60%
145.		Acid value of extracted fat	BDS 1564:2016, Annex--E	0.5-30
146.		Chloride	BDS 1564:2016, Annex--F	0.1-20%
147.		Aflatoxin	SOP-BSTI/TP/B/7.2/19(ELISA methods)	0.4-45 µg/kg
148.		Iron	BDS 1564:2016, Annex--G/ AOAC 999.10,	5-1000 mg/kg
149.		Peroxide value	BDS 1556 : 2016, Annex-C	0.5-30
150.		Arsenic (as As)	AOAC 986.15,	5-2000 µg/kg
151.		Lead (as Pb)	AOAC 999.10,	5-2000 µg/kg
152.	Noodles	Description	BDS 1106:2015	Qualitative
153.		Moisture	BDS 1106:2015, Annex-A	0.1-25%
154.		Acid value	BDS 1106:2015, Annex -B	0.1-10mg/gm
155.		Degree of gelatinization	BDS 1106:2015, Annex -C	1-100%
156.		Cooking time in minutes	BDS 1106:2015, Annex -D	0.5-30 minute
157.		Arsenic (as As)	AOAC 986.15,	5-2000 µg/kg
158.		Lead (as Pb)	AOAC 999.10,	5-2000 µg/kg
159.		Cadmium (as Cd)	AOAC 999.10,	0.25-1000 µg/kg
160.		Nickel(Ni)	AOAC 971.20,	5-1000µg/kg
161.	Tin (as Sn)	AOAC 985.16,	5.0-25000 µg/kg	
162.	Instant	Description	BDS 1552:2015	Qualitative




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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
163.	Noodles	Moisture	BDS 1552:2015, Annex-A	0.1-25%
164.		Acid value (as KOH)	BDS 1552:2015, Annex -D	0.1-10mg/gm
165.		Protein content	BDS 1552:2015, Annex -C	0.5-40%
166.		Cooking time in minutes	BDS 1552:2015, Annex -B	0.5-30 minute
167.	Soft Drink Powder	Moisture	BDS 138:2006, App- E	0.05-10%
168.		Sulphated ash	BDS 138:2006, App- F	0.05-10%
169.		Acid Insoluble ash	BDS 490:2014, App- C	0.002-5%
170.		Acidity	BDS 1586:2007, App- C	0.1-30%
171.	Carbonated Beverage	Sugar Content (Brix)	AOAC 932.12: ISO 2173:1978	0-20%
172.	Black Tea	Water Extract,	BDS ISO 9768: 1994	0.1-100%
173.		Total Ash,	BDS ISO 1575: 2015	0.1-100%
174.		Water Soluble Ash as % of Total Ash,	BDS ISO 1576: 2015	0.1-100%
175.		Acid Insoluble Ash,	BDS ISO 1577: 2015	0.1-100%
176.		Alkalinity of Water Soluble Ash(as KOH),	BDS ISO 1578: 2008	0.1-100%
177.		Crude Fiber,	BDS ISO 5498: 1981	0.1-100%
178.		Edible Oil (Soybean, Palm Oil, Palm Olein, Rice Bran Oil, Sunflower Oil etc.)	Moisture & insoluble impurities, % m/m	BDS 1584:1997, CL-9 & 10
179.	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
180.	Refractive index at 40 °C		BDS 1584:1997, CL-7	1.4500 to 1.4800
181.	Relative density/Specific Gravity at 20/20°C, 27/27°C, 30/30°C/		BDS 1584:1997, CL-8, ISO 901 & 758	0.900 to 1.000
182.	Saponification value, (as KOH), mg/g		BDS 1584:1997, CL-15/	170.00 to 220.00
183.	Iodine value		BDS 1584:1997, CL-19/	35.00 to 150.00
184.	Acid value (as KOH)		BDS 1584:1997, CL-11	0.10 to 20.00
185.	Unsaponifiable matter,% m/m		BDS 1584:1997, CL-17	00 to 15.00
186.	Peroxide value, milliequivalents of oxygen per kg oil		BDS 1584:1997, CL-20/	0.20 to 20.00



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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
187.		Vitamin-A, mg/kg	BDS 1769:2014; App-C	0.05- 50.00

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 (Water)				
1.		TDS	AOAC 973.40,	0.00-19900.00 mg/L
2.		Conductivity	AOAC 973.40,	0-199.9 ms
3.		pH	AOAC 973.41,	1.00-14.00
4.		Total Hardness as CaCO ₃	BDS 1414.2000 appendix-N	1-500 mg/L
5.		Lead (as Pb)	BDS 1414.2000 appendix-F / AOAC 974.27,	5-25 µg/L
6.	Drinking Water & Mineral Water	Cadmium (as Cd)	BDS 1414.2000 appendix-F / AOAC 974.27,	0.25-2.5 µg/L
7.		Mercury (Hg)	AOAC 977.22,	0.5-2µg/L
8.		Copper (as Cu)	BDS 1414.2000 appendix-F / AOAC 974.27,	0.5-7.0 mg/L
9.		Zinc (as Zn),	BDS 1414.2000 appendix-F / AOAC 974.27,	0.25-1.5 mg/L
10.		Chromium (as Cr),	AOAC 974.27,	1.25-6.25µg/L
11.		Chlorides (Cl)	AOAC 973.51,	1-500 mg/L
12.		Arsenic (as As)	AOAC 986.15,	5-30 µg/L
13.		Iron (Fe)	AOAC 974.27,	0.25-1.5mg/L



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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
14.		Selenium(Se)	AOAC 986.15,	5-25 µg/L
15.		Nickel(Ni)	BDS 1414.2000 appendix-F	5-25 µg/L
16.		Barium (Ba)	AOAC 920.201,	0.5-10 mg/L
17.		Manganese (Mn)	AOAC 974.27,	0.5-3 mg/L
18.		Calcium(Ca)	BDS 1240.2001 appendix-C	1-500 mg/L
19.		Sodium (Na)	AOAC 973.54,	0.2-100 mg/L
20.		Colour	BDS 1240: 2001, App-B	0.5-10 Hazen unit
21.		Odour	BDS 1414:2000, App-B	Qualitative
22.		Taste	APHA 2160(22 nd Edition), 2012	Qualitative
23.		Turbidity	BDS 1414:2000, App-U/ Instruction Manual of Turbidimeter.	0.1-1100 NTU
24.		Nitrate	APHA(22 nd Edition)4500-NO ₃ , 2012	0 -50mg/L
25.		Nitrite	APHA(22 nd Edition)4500-NO ₂ , 2012	0.005-1mg/L
26.		Fluoride,	4500-F.D. SPANDS Method, APHA	0.10-5mg/L
27.		Borate	AOAC (19th Edition) 11.1.41, Part-25, 2012, AOAC (9th Edition) 31.050	1-50mg/L
28.		Free Carbon dioxide	APHA (22 nd Edition) 4500, 2012	0.5-500mg/L
29.		Organic matter	BDS 1414:2000, App-S	0.1-10mg/L
30.		Hydrogen Sulfide	BDS 1414:2000, App-J/, APHA 22 nd Edition) 4500,2012	0.02-5mg/L

END




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Accreditation Standard:	ISO/IEC 17025 : 2017	Accreditation Date:	31 Dec 2017
Certificate Number:	01.046.17	Issued on:	31 Dec 2020
Last Amended on:	NA	Valid until:	30 Dec 2023
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: Microbiological Testing				
1.	Drinking 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.	Mineral water	Total bacterial count	BDS 1414: 2000, App.-L	≥ 1cfu/ml
4.		Total Coliform bacterial count	BDS 1414: 2000, App.-K	<1.1 MPN to >23 MPN/100ml
5.		Faecal Coliform count	BDS 1414: 2000, App.-K	<1.1 MPN to >23 MPN/100ml
6.	Fruit juice, Fruit Drinks, Tomato ketchup, Chutney, Fruit Squash,	Total bacterial count	BDS 513: 2013, App.-D	≥ 10cfu/ml or gm
7.		Total Coliform bacterial count	BDS 513: 2013, App.-B	≥ 10cfu/ml or gm
8.		Yeast and Mould Count	BDS 1123: 2013, App.-D	≥ 10cfu/ml or gm



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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
	Fruit Syrup, Fruit Cordial, Edible Jell, Sauce, Tomato Paste, Soft Drink Powder, Carbonated Beverage			
9.		Total bacterial count	BDS 1083: 2006, App.-G	≥ 10cfu/ml or gm
10.	Protein rich Biscuit	Total Coliform bacterial count	BDS 1083: 2006, App.H	≥ 10cfu/ml or gm

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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)				


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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
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%

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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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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 5 and 8,11,12) :2012; BDS ISO 1833 – 7:2019 BDS ISO 1833 – 16:2014 BDS ISO 1833 – 24:2017	2 - 100%
2.		pH of aqueous extract	BDS ISO 3071:2006	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 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%

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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 7211-5:2008	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 to 4:2009	(a) 1000- 90,000 cycles (b) 1- 50% mass loss (c) Rating 1 to 5	
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.		Wales & Course per Unit Length	ASTM D 3887 : 1996 (RA2008)	20 -1000 per dm	
12.		Textile Yarn	Determination of linear density of yarn by skein method	BDS ISO 2060:1998	5 to 300 Tex
13.		Textile Yarn	Determination of skein (lea) breaking strength and tenacity	BDS ISO 6939:1998	50 N to 4500 N
14.		Textile Yarn	Twist of yarn – Direct counting method	BDS ISO 2061:2020	20 to 3000 turns per meter
15.		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 %


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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 (Elongation)
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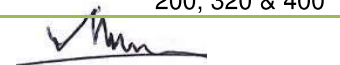
END

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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: 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	ISO 6892-1: 2012 IS 1608:2005	10.0 – 1000.0 N/mm2
5.		Yield strength	ISO 6892-1: 2012 IS 1608:2005	10.0 – 1000.0 N/mm2
6.		Elongation	ISO 6892-1: 2012 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.	Reinforcement Steel	Re-bend Test	ISO 10065:2006 & IS 1786:2008	Mandrel Size:(mm) 32,40,50,63,100,160, 200, 320 & 400


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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
9.		Mass/meter	BDS ISO 6935-1& 2 :2006; IS 1786: 2008	0.2 – 15.0 Kg/m
10.		Diameter	BDS ISO 6935-1& 2 : 2006; IS 1786: 2008	5.0 – 50 mm

END



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