

SCOPE OF TESTING IN BIOTECHNOLOGY LABORATORY UNIT MICROBIOLOGY

S/N	Standard Operating Procedures (SOP) /reference or Standard Methods	Parameters	Components if applicable	Matrix (product name)
1.	NQTLD/ MIC/ SOP-1 In accordance with ISO 6222	Total Viable Count		Water
2.	NQTLD/ MIC/SOP-4 in accordance with ISO 9308-1	Total coliforms		
3.	NQTLD/ MIC/ SOP-4 In accordance with ISO 9308-1	Escherichia coli		
4.	NQTLD/ MIC/ SOP-9 In accordance with ISO 19250	Salmonella spp		
5.	NQTLD/ MIC/ SOP-13 In accordance with ISO16266	Pseudomonas aeruginosa		
6.	NQTLD/ MIC/ SOP-15 In accordance with ISO7899	Intestinal enterococci/ Enterococcus faecalis		
7.	NQTLD/MIC.SOP-21, In accordance with ISO ISO 7937: 2004	Horizontal method for enumeration of Clostridium perfringens		
8.	NQTLD/ MIC/ SOP-22 In accordance ISO14189	Clostridium perfringens		
9.	NQTLD/ MIC/SOP-2 in accordance with ISO 4833-1	Total viable counts		Food, feed and environmental samples Food, feed and environmental samples
10.	NQTLD/ MIC/ SOP-SOP-3 in accordance with ISO 4832	Total coliforms		
11.	NQTLD/ MIC/ SOP-8 in accordance with ISO 16649-1	Escherichia coli		
12.	NQTLD/ MIC/ SOP-10 In accordance with ISO 6579	Salmonella spp		
13.	NQTLD/ MIC/ SOP-12 In accordance with ISO 6888-1	Coagulase-positive staphylococci (Staphylococcus aureus and other species)		
14.	NQTLD/ MIC/ SOP-14 in accordance with ISO 21528- 2	Enterobacteriaceae		
15.	NQTLD/ MIC/ SOP-17 In accordance with 21872-1	Vibrio parahaemolyticus		
16.	NQTLD/ MIC/ SOP-17 In accordance with 21872-1	Vibrio cholerae		
17.	In accordance with ISO 15213	Sulfite reducing anaerobes		
18.	NQTLD/ MIC/ SOP-18 In accordance with ISO 21567	Shigella ssp		
19.	NQTLD/ MIC/ SOP-19 In accordance with ISO 10272-1	Campylobacter spp		
20.	NQTLD/ MIC/ SOP-20 Part1 In accordance ISO 11290-1	Listeria monocytogenes (enumeration)		
21.	NQTLD/ MIC/ SOP-20 part 2 in accordance ISO 11290-2	Listeria monocytogenes (detection)		

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S/N	Standard Operating Procedures (SOP)/reference or Standard Methods	Parameters	Components/ If applicable	Matrix (product name)
22.	NQTLTLD/ MIC/ SOP-21 in accordance ISO7939	Clostridium perfringens		
23.	NQTLTLD/ MIC/ SOP-22 In accordance ISO14189	Clostridium perfringens		
24.	NQTLTLD/ MIC/ SOP-5 in accordance with ISO 21527-1	Yeasts &Moulds		Food, feed and environmental samples with Greater water activity than 0.95
25.	NQTLTLD/ MIC/ SOP-6 In accordance with ISO 21527-2	Yeasts &Moulds		Food, feed and environmental samples with water activity Less than0.95
26.	NQTLTLD/ MIC/ SOP-7In accordance with ISO 661	Yeasts &Moulds		Milk and milk Products
27.	NQTLTLD/ MIC/ SOP-16 In accordance with ISO22717	Pseudomonas aeruginosa		Cosmetic products
28.	NQTLTLD/MIC/SOP-28 in accordance with ISO 21149	Aerobic mesophilic bacteria		
29.	NQTLTLD/MIC/SOP-27 in accordance with ISO 22718	Staphylococcus aureus		
30.	NQTLTLD/MIC/SOP-26	Candida albicans		
SCOPE OF TESTING IN CHEMICAL LABORATORIES UNIT –FOODAGRICUTURE& MYCOTOXIN LABORATORIES				
1.	NQTLTLD/FAL/SOP-7	Moisture content		Tea and tea products
2.	NQTLTLD/FAL/SOP-7	Dry matter		
3.	NQTLTLD/FAL/SOP-8	Total ash content		
4.	NQTLTLD/FAL/SOP-10	Acid insoluble ash		
5.	NQTLTLD/FAL/SOP-12	Water soluble ash		
6.	NQTLTLD/FAL/SOP-13	Alkalinity of water soluble ash		
7.	NQTLTLD/FAL/SOP-11	Water extract		
8.	NQTLTLD/FAL/SOP-9	Crude fiber		
9.	NQTLTLD/FAL/SOP-14	Moisture content		Coffee and coffee products
10.	NQTLTLD/FAL/SOP-15	Total ash		
11.	NQTLTLD/FAL/SOP-16	Acid insoluble ash		
12.	NQTLTLD/FAL/SOP-18	Alkalinity of water soluble ash		
13.	NQTLTLD/FAL/SOP-19	Petroleum ether extract		
14.	NQTLTLD/FAL/SOP-33	Ochratoxin-A		
15.	NQTLTLD/FAL/SOP-45	Caffeine		
16.	NQTLTLD/FAL/SOP-17	Water soluble matter		
17.	RS EAS 43	Moisture content		Bread
18.	RS EAS 43	pH of aqueous extract		
19.	RS EAS 43	Acid insoluble ash		
20.	NQTLTLD/FAL/SOP-9	Crude fiber		
21.	NQTLTLD/FAL/SOP-6	Fat content		
22.	NQTLTLD/FAL/SOP-1	Aflatoxin (B1, B2, G1 &G2)		

S/N	Standard Operating Procedures (SOP)/reference or Standard Methods	Parameters	Components/ If applicable	Matrix (product name)
23.	ISO 7301	Head rice		Rice
24.	ISO 7301	Broken rice		
25.	ISO 7301	Damaged rice		
26.	ISO 7301	Chalky		
27.	ISO 7301	Red or red streaked		
28.	ISO 7301	Organic matters		
29.	ISO 7301	Inorganic matters		
30.	ISO 7301	Paddy grain		
31.	NQTLT/FAL/SOP-38	Moisture content		
32.	ISO 7301	Live weevils		
33.	ISO 7301	Filth		
34.	NQTLT/FAL/SOP-1	Aflatoxin (B1, B2, G1&G2)		
35.	GEA Niro A9a	Fat content		Milk powder
36.	NQTLT/FAL/SOP-5	Protein content		
37.	GEA Niro A 1 b	Total solid		
38.	GEA Niro A 25 a	Total ash		
39.	GEA Niro A1b	Moisture content		
40.	GEA Niro A3a	Insolubility index		
41.	GEA Niro A19a	Titrateable acidity		
42.	AoAC 980	Aflatoxin M1		
43.	NQTLT/FAL/SOP-24	Fat content		Fresh milk
44.	NQTLT/FAL/SOP-24	Total solid		
45.	NQTLT/FAL/SOP-24	Freezing point depression		
46.	NQTLT/FAL/SOP-24	Lactose		
47.	NQTLT/FAL/SOP-24	Protein content		
48.	RS 38	pH		
49.	NQTLT/FAL/SOP-24	Solid non-fat		
50.	NQTLT/FAL/SOP-24	Acidity		
51.	ISO 26323	pH variation		
52.	AOAC 952.21	Foreign matters		
53.	AOAC 980.21	Aflatoxin M1		
54.	AOAC 970.5	Titrateable acidity		
55.	NQTLT/FAL/SOP-38	Moisture content		Maize grains
56.	ISO 605	Foreign matter		
57.	ISO 605	Inorganic matter		
58.	ISO 605	Broken grains		
59.	ISO 605	Rotten and diseased grains		
60.	ISO 605	Total defective grains		
61.	ISO 605	Live weevils		
62.	ISO 605	filth		
63.	NQTLT/FAL/SOP-43	Aflatoxin (B1, B2, G1&G2)		Dry beans
64.	NQTLT/FAL/SOP-38	Moisture content		
65.	NQTLT/FAL/SOP-38	Moisture content		
66.	NQTLT/FAL/SOP-39	Crude ash		
67.	NQTLT/FAL/SOP-4	Acid insoluble ash		
68.	NQTLT/FAL/SOP-42	Crude fibers		
69.	AOAC 996.11	Starch		
70.	NQTLT/FAL/SOP-1	Aflatoxin (B1, B2, G1&G2)		
71.	NQTLT/ICH/SOP-30	Hydrogen cyanide (HCN)		

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S/N	Standard Operating Procedures (SOP)/reference or Standard Methods	Parameters	Components/ If applicable	Matrix (product name)
72.	NQTLT/FAL/SOP-38	Moisture content		Processed cereals(flour)
73.	NQTLT/FAL/SOP-8	Total ash		
74.	NQTLT/FAL/SOP-4	Acid insoluble ash		
75.	NQTLT/FAL/SOP-42	Fiber content		
76.	NQTLT/FAL/SOP-41	Fat content		
77.	NQTLT/FAL/SOP-40	protein		
78.	RS 268:2007	Granularity		
79.	AOAC 996.11	Starch		
80.	AOAC 986.25	Total carbohydrates		
81.	NQTLT/FAL/SOP-1	Aflatoxin (B1, B2, G1&G2)		
82.	NQTLT/FAL/SOP-50	Moisture content		Animal feeds
83.	NQTLT/FAL/SOP-39	Crude ash		
84.	NQTLT/FAL/SOP-4	Acid insoluble ash		
85.	NQTLT/FAL/SOP-53	Crude fiber		
86.	NQTLT/FAL/SOP-51	Crude fat		
87.	NQTLT/FAL/SOP-52	Crude protein		
88.	ISO 12099	Total carbohydrates		
89.	NQTLT/FAL/SOP-1	Aflatoxin (B1,B2,G1&G2)		
90.	NQTLT/FAL/SOP-20	Moisture content		Biscuits
91.	NQTLT/FAL/SOP-21	Acid insoluble ash		
92.	NQTLT/FAL/SOP-38	Moisture content		Macadamia kernels
93.	NQTLT/FAL/SOP-38	Total ash		
94.	NQTLT/FAL/SOP-40	Oil content		
95.	RS 170	Shrunken and shriveled kernels		
96.	RS 170	Mouldy kernels		
97.	RS 170	Rotten and insects damaged		
98.	ISO 605	Live insects		
99.	ISO 605	Foreign matters		
100.	NQTLT/FAL/SOP-1	Aflatoxins B1,B2,G1 and G2		Groundnuts
101.	NQTLT/FAL/SOP-38	Moisture content		
102.	ISO 605	Damaged kernels		
103.	ISO 605	Other defects		
104.	EAS 46	Unshelled kernels		
105.	EAS 46	Total defectives kernels		
106.	EAS 46	Foreign matter		
107.	ISO 659	Oil content		
108.	NQTLT/FAL/SOP-1	Aflatoxins B1,B2,G1 and G2		Tofu
109.	NQTLT/FAL/SOP-38	Moisture content		
110.	ISO 659	Crude fat		
111.	NQTLT/FAL/SOP-5	Crude protein		Urea
112.	NQTLT/FAL/SOP-28	Moisture		
113.	NQTLT/FAL/SOP-40	Nitrogen		
114.	AOAC 955.03	Ash		NPK
115.	RS 71	pH		
116.	NQTLT/FAL/SOP-28	Moisture		
117.	NQTLT/FAL/SOP-40	Nitrogen		
118.	KS 157:1998	Phosphorus		

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S/N	Standard Operating Procedures (SOP)/reference or Standard Methods	Parameters	Components/ If applicable	Matrix (product name)
119.	NQTLT/ICH/SOP-16	Potassium		
120.	RS 71	pH		
121.	NQTLT/FAL/SOP-50	Formaldehyde		Fresh fish and beef
122.	NQTLT/FAL/SOP-28	Moisture		Calcium ammonium
123.	NQTLT/FAL/SOP-40	Nitrogen		
124.	NQTLT/FAL/SOP-28	Moisture		Potassium chloride (MOP)
125.	NQTLT/ICH/SOP-16	Potassium		
126.	RS 71	pH		
127.	NQTLT/FAL/SOP-28	Moisture		DAP/MAP
128.	NQTLT/FAL/SOP-40	Nitrogen		
129.	AOAC 969.02	phosphorus		
130.	RS 71	pH		
131.	NQTLT/FAL/SOP-28	Moisture		Compost/organic manure
132.	NQTLT/FAL/SOP-40	Nitrogen		
133.	AOAC 969.02	Phosphorus		
134.	NQTLT/ICH/SOP-16	Potassium		
135.	RS 73:2013	Organic matters		
136.	RS 73:2013	C/N ratio		
137.	RS 71:2007	pH		
SCOPE OF TESTING IN CHEMICAL LABORATORIES UNIT-INORGANIC CHEMISTRY				
1.	NQTLT/ICH/SOP-15	pH		Physical and chemical parameters in water
2.	TDS/CONDUCTIVITY METER	Total Dissolved Solids (TDS)		
3.	NQTLT/ICH/SOP-22	Total Hardness		
4.	NQTLT/ICH/SOP-29	Turbidity		
5.	EPA Methods 310.1	Alkalinity		
6.	NQTLT/ICH/SOP-28	Electrical conductivity		
7.	NQTLT/ICH/SOP-14	Sulphate as SO42-		
8.	ISO 7393	Free Chlorine		
9.	NQTLT/ICH/SOP-8	Chloride Cl-		
10.	ISO 172924:2016	Lead as Pb		Analysis of heavy metals by ICP/MS
11.	ISO 172924:2016	Arsenic as As		
12.	ISO 172924:2016	Mercury as Hg		
13.	ISO 172924:2016	Cadmium as Cd		
14.	ISO 172924:2016	Tin as Sn		
15.	ISO 172924:2016	Thallium as Tl		
16.	ISO 172924:2016	Molybdenum as Mo		
17.	ISO 172924:2016	Aluminium as Al		
18.	ISO 172924:2016	Niobium as Nb		
19.	ISO 172924:2016	Cesium as Cs		
20.	ISO 172924:2016	Francium as Fr		
21.	ISO 172924:2016	Strontium as Sr		
22.	ISO 172924:2016	Barium as Ba		
23.	ISO 172924:2016	Radium as Ra		
24.	ISO 172924:2016	Scandium as Sc		
25.	ISO 172924:2016	Yttrium as Y		
26.	ISO 172924:2016	Aluminium as Al		
27.	ISO 172924:2016	Rubidium as Rb		

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S/N	Standard Operating Procedures (SOP)/reference or Standard Methods	Parameters	Components/ If applicable	Matrix (product name)
28.	ISO 172924:2016	Titanium as Ti		Analysis of heavy metals by ICP/MS
29.	ISO 172924:2016	Vanadium as V		
30.	ISO 172924:2016	Chromium as Cr		
31.	ISO 172924:2016	Gallium as Ga		
32.	ISO 172924:2016	Germanium as Ge		
33.	ISO 172924:2016	Arsenic as As		
34.	ISO 172924:2016	Zirconium as Zr		
35.	ISO 172924:2016	Thallium as Tl		
36.	ISO 172924:2016	Mercury as Hg		
37.	ISO 172924:2016	Niobium as Nb		
38.	ISO 172924:2016	Molybdenum as Mo		
39.	ISO 172924:2016	Ruthenium as Ru		
40.	ISO 172924:2016	Rhodium as Rh		
41.	ISO 172924:2016	Palladium as Pd		
42.	ISO 172924:2016	Gold as Au		
43.	ISO 172924:2016	Cadmium as Cd		
44.	ISO 172924:2016	Tin as Sn		
45.	ISO 172924:2016	Antimony as Sb		
46.	ISO 172924:2016	Indium as In		
47.	ISO 172924:2016	Platinum as Pt		
48.	ISO 172924:2016	Hafnium as Hf		
49.	ISO 172924:2016	Thorium as Th		
50.	ISO 172924:2016	Bismuth as Bi		
51.	ISO 172924:2016	Tellurium as Te		
52.	ISO 172924:2016	Silicon as Si		
53.	ISO 172924:2016	Selenium as Se		
54.	NQTLT/ICH/SOP-12	Sodium as Na		Digestible samples (Food, beverage, cosmetics and environmental related matrices) analysis of heavy metals by ICP/MS
55.	NQTLT/ICH/SOP-12	Potassium as K		
56.	NQTLT/ICH/SOP-12	Magnesium as Mg		
57.	NQTLT/ICH/SOP-12	Manganese as Mn		
58.	NQTLT/ICH/SOP-12	Zinc as Zn		
59.	NQTLT/ICH/SOP-12	Iron as Fe		
60.	NQTLT/ICH/SOP-12	Copper as Cu		
61.	NQTLT/ICH/SOP-12	Lead as Pb		
62.	NQTLT/ICH/SOP-12	Arsenic as As		
63.	NQTLT/ICH/SOP-12	Mercury as Hg		
64.	NQTLT/ICH/SOP-12	Cadmium as Cd		
65.	NQTLT/ICH/SOP-12	Tin as Sn		
66.	NQTLT/ICH/SOP-12	Thallium as Tl		
67.	NQTLT/ICH/SOP-12	Molybdenum as Mo		
68.	NQTLT/ICH/SOP-12	Aluminium as Al		
69.	NQTLT/ICH/SOP-12	Niobium as Nb		
70.	NQTLT/ICH/SOP-12	Cesium as Cs		
71.	NQTLT/ICH/SOP-12	Francium as Fr		
72.	NQTLT/ICH/SOP-12	Strontium as Sr		
73.	NQTLT/ICH/SOP-12	Radium as Ra		
74.	NQTLT/ICH/SOP-12	Scandium as Sc		
75.	NQTLT/ICH/SOP-12	Yttrium as Y		
76.	NQTLT/ICH/SOP-12	Aluminium as Al		

S/N	Standard Operating Procedures (SOP)/reference or Standard Methods	Parameters	Components/ If applicable	Matrix (product name)
77.	NQTL D/ICH/SOP-12	Rubidium as Rb		Digestible samples (Food , beverage, cosmetics and environmental related matrices) analysis of heavy metals by ICP/MS
78.	NQTL D/ICH/SOP-12	Titanium as Ti		
79.	NQTL D/ICH/SOP-12	Vanadium as V		
80.	NQTL D/ICH/SOP-12	Chromium as Cr		
81.	NQTL D/ICH/SOP-12	Gallium as Ga		
82.	NQTL D/ICH/SOP-12	Germanium as Ge		
83.	NQTL D/ICH/SOP-12	Arsenic as As		
84.	NQTL D/ICH/SOP-12	Zirconium as Zr		
85.	NQTL D/ICH/SOP-12	Thallium as Tl		
86.	NQTL D/ICH/SOP-12	Mercury as Hg		
87.	NQTL D/ICH/SOP-12	Niobium as Nb		
88.	NQTL D/ICH/SOP-12	Molybdenum as Mo		
89.	ISO 1842-1991	pH		Tomato paste
90.	AOAC 940.19	pH		Juices (soft beverages)
91.	ISO 750	Acidity		
92.	AOAC 940.27	Brix		
93.	NQTL D/ICH/SOP-36	Moisture content		Honey
94.	NQTL D/ICH/SOP-23	Total ash		
95.	NQTL D/ICH/SOP-20	Acidity		
96.	AOAC 945:27	pH		
97.	NQTL D/ICH/SOP-38	Fiehe's test		
98.	RS 164	Conductivity		
99.	NQTL D/ICH/SOP-11	Relative density		
100.	NQTL D/ICH/SOP-21	Polarization		Sugar
101.	NQTL D/ICH/SOP-25	Moisture content		
102.	KS 05-58:1998	Sulfur dioxide		
103.	NQTL D/ICH/SOP-26	Conductivity ash		
104.	KS 05-58:1998	Color		
105.	KS 05-2029:1989	sulfates		Salts
106.	NQTL D/ICH/SOP-37	Total chloride as NaCl		
107.	NQTL D/ICH/SOP-17	Iodine		
108.	KS 05-2029:1989	Moisture content		
109.	ISO-2479-1972	Water insoluble matter		
110.	NQTL D/ICH/SOP-18	Refractive index		Cooking oil
111.	NQTL D/ICH/SOP-25	Moisture and volatile matter		
112.	NQTL D/ICH/SOP-5	Peroxide value		
113.	NQTL D/ICH/SOP-6	Saponification value		
114.	NQTL D/ICH/SOP-7	Acid value		
115.	KS 05-2029:1989	Relative density		
116.	NQTL D/ICH/SOP-19	Iodine value		
117.	NQTL D/ICH/SOP-3	Soap content		
118.	NQTL D/ICH/SOP-31	Free fatty acid		

SCOPE OF TESTING IN CHEMICAL LABORATORIES UNIT- ORGANIC CHEMISTRY

S/N	Standard Operating Procedures (SOP)/reference or Standard Methods	Parameters	Components/ If applicable	Matrix (product name)
1.	NQTLT/OCH/SOP-20	Ethyl alcohol content		Alcoholic beverages & carbonated soft drinks
2.		Total acids		
3.		Volatile acids		
4.		Total Sulfur dioxide(T-SO ₂)		
5.		pH		
6.		Glucose fructose		
7.		Malic acid		
8.		Citric acid		
9.		Tartaric acid		
10.		Carbon dioxide (CO ₂)		
11.		Density		
12.		Folin C index		
13.		Fructose		
14.		Free sulfur dioxide(F-SO ₂)		
15.		Glycerol		
16.		Reducing sugar		
17.		pH for cloud beer		
18.		Sorbic acid		
19.	AOAC 932-12-1980	Total dissolved solids		
20.	NQTLT/OCH/SOP-32	Aldehydes and acetaldehydes		
21.		Esters as ethyl acetate		
22.		Methanol		
23.		1-Propanol		
24.		2-Propanol or Isopropanol		
25.		1-Butanol		
26.		2-Butanol		
27.		1-Pentanol or n-Pentanol or amyl alcohol		
28.		Iso-amyl alcohol		
29.	NQTLT/OCH/SOP-6	Total solids		Skincare creams, lotions, gel
30.	NQTLT/OCH/SOP -16	Thermal stability		
31.	NQTLT/OCH/SOP -14	PH range		
32.	NQTLT/OCH/SOP -15	Total fatty substances content		
33.	NQTLT/OCH/SOP -13	hydroquinone		Pomades and solid brilliantine
34.	NQTLT/OCH/SOP-18	Sulphate ash		
35.	NQTLT/OCH/SOP -16	Thermal stability		Hair cream
36.	NQTLT/OCH/SOP -34	pH range		
37.	ASTM D86	Distillation		Kerosene
38.	ASTM D445-09	Viscosity index		
39.		Kinematic viscosity		
40.	ASTM D1298	Specific gravity/ Relative density		
41.	ASTM D86	Distillation		
42.	ASTM D445-09	Viscosity index		
43.		Kinematic viscosity		

S/N	Standard Operating Procedures (SOP)/reference or Standard Methods	Parameters	Components/ If applicable	Matrix (product name)
44.	ASTM D1298	Specific gravity/ Relative density		Kerosene
45.		API Gravity		
46.	ASTM D86	Distillation		
47.	Visual inspection	Colour		
48.		Appearance		
49.	ASTM D4052	Density		Jet A1
50.	Visual inspection	Appearance		
51.	ASTM D86	Distillation		
52.	ASTM D4052	Density		Diesel or gasoil
53.	ASTM D93	Flash point		
54.	ASTM D86	Distillation		
55.	ASTM D445-09	Kinematic viscosity		
56.	Visual inspection	Appearance		
57.	ASTM D4052	Density		Engine oil
58.	ASTM D93	Flash point		
59.	ASTM D86	Distillation		
60.	ASTM D445-09	Kinematic viscosity		
61.	Visual inspection	Appearance		
62.	ASTM D4052	Density		Gasoline
63.	ASTM D86	Distillation		
64.	ASTM D4052	Density		
65.	Visual inspection	Color		Sanitary towels
66.	NQTLT/OCH/SOP -21	Absorbency capacity		
67.	NQTLT/OCH/SOP -23	pH value		
68.	NQTLT/OCH/SOP -22	Moisture content of filler material		Toilet paper
69.	NQTLT/OCH/SOP -36	Water absorption		
70.	NQTLT/OCH/SOP -35	pH value, hot extract		
71.	NQTLT/OCH/SOP -37	Moisture content		Scouring powder
72.	NQTLT/OCH/SOP -42	pH of 1% solution		
73.	NQTLT/OCH/SOP -38	Volatile matter		
74.	NQTLT/OCH/SOP -08	Free alkali content		
75.	NQTLT/OCH/SOP -10	Matter insoluble in water		Skin powder
76.	NQTLT/OCH/SOP -29	Matter insoluble in boiling water		
77.	NQTLT/OCH/SOP -31	Moisture and volatile matter		
78.	NQTLT/OCH/SOP -30	pH of aqueous suspension		Laundry bar soap
79.	NQTLT/OCH/SOP -12	Total fatty matter		
80.	NQTLT/OCH/SOP -10	Matter insoluble in water		
81.	NQTLT/OCH/SOP -11	Matter insoluble in ethanol		
82.	NQTLT/OCH/SOP -38	Moisture and volatile matter content		
83.	NQTLT/OCH/SOP -08	Total free alkali as NaOH		Liquid detergent
84.	NQTLT/OCH/SOP -07	Total alkali Content		
85.	NQTLT/OCH/SOP -09	Free caustic alkali as NaOH		
86.	NQTLT/OCH/SOP -33	Solubility in water		
87.	NQTLT/OCH/SOP -39	Rinsing properties		
88.	NQTLT/OCH/SOP -24	pH at 27°C at 1% solution		
89.	NQTLT/OCH/SOP -10	Matter insoluble in water		

S/N	Standard Operating Procedures (SOP)/reference or Standard Methods	Parameters	Components/ If applicable	Matrix (product name)
90.	NQTLT/OCH/SOP -24	pH value range		Liquid detergent
91.	NQTLT/OCH/SOP -10	Total fatty matter		Toilet soap
92.	NQTLT/OCH/SOP -24	Matter insoluble in ethanol		
93.	NQTLT/OCH/SOP -12	Free caustic alkali as NaOH		
94.	NQTLT/OCH/SOP -11	Matter insoluble in ethanol		Liquid soap
95.	NQTLT/OCH/SOP -09	Free caustic alkali as K ₂ O		
96.	NQTLT/OCH/SOP -11	pH		
97.	ISO 11024	Chromatographic profile		Essential Oil
98.	Physical inspection	Appearance		
99.	Physical inspection	Color		
100.	Physical inspection	Odor		
101.	ISO 279	Relative Density		
102.	ISO 280	Refractive Index		
103.	ISO 592	Optical Rotation		
104.	ISO 875	Miscibility in ethanol		
105.	ASTM D93	Flash point		
106.	RS EAS 335:2013	Alcohol content		Cologne
107.	RS EAS 335:2013	Stability of smell		
108.	RS EAS 335:2013	pH		
109.	RS 408:2019 ANNEX A	Alcohol content		Perfume
110.	RS 408:2019 ANNEX B	Stability of smell		
111.	RS 408:2019 ANNEX D	pH		
112.	ASTM D2180 – 17	Available Oxygen		Bleach
113.	EAS 295:2021 ANNEX	Available Chlorine		
114.	EAS 295:2021 ANNEX	Sodium Hydroxide		
115.	RS ISO 4316	pH		
116.	RS EAS 956:2020	General leakage		
117.	RS EAS 956:2020	Stability of smell		
118.	RS EAS 956:2020	Non Volatile matter		
119.	EAS 847-17	pH		
120.	RS 283:2017 ANNEX C	Water content		Glass Cleaner
121.	RS 283:2017 ANNEX D	Non-Volatile matter		
122.	RS 283:2017 ANNEX G	Specific gravity		
123.	RS 283:2017 ANNEX F	Flash point		
124.	RS 283:2017 ANNEX E	pH		
125.	RS ISO 3071	pH		Wipes
126.	RS 439:2021 ANNEX C	Moisture content		Shampoo
127.	EAS 847-27	Total fatty matter		
128.	EAS 847-28	Free Caustic alkali		
129.	EAS 847-3, ISO 673	Matter insoluble in ethanol		
130.	EAS 847-17	pH		
131.	RS ISO 3071	pH		Diapers
132.	RS EAS 969:2020	Absorptive capacity		Hair dye
133.	RS EAS 461:2013	Aryl diamine		
134.	RS EAS 461:2013	pH		

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S/N	Standard Operating Procedures (SOP)/reference or Standard Methods	Parameters	Components/ If applicable	Matrix (product name)
135.	NQTLT/OCH/SOP- 25/EN 15662:2018	Pesticide residues (covers 180 components)	1.BHC-alpha (benzene hexachloride), 2.Methacrifos, Sulfotep, 3.BHC-gamma, 4.Diazinon, 5.Fonofos, 6.Propetamphos, 7.BHC-beta, 8.Chlorpyrifos-methyl, 9.Metalaxyl, 10.Ronnel (Fenchlorphos), 11.Pirimiphos-methyl, 12.Chlorpyrifos, Heptachlor, 13.Malathion, 14.Aldrin, 15.Bromophos, 16.Chlorfenvinphos, 17.Pirimiphos-ethyl, 18.Bromophos-ethyl, 19.Heptachlor exo-epoxide (isomer B), 20.Profenofos, 21.Tetrachlorvinphos, 22. E-isomer, 23.DDE-p,p', 24. Endosulfan I (alpha isomer), 25. Carbophenothion, 26. Dieldrin, 27.Endrin, 28.Ethion, 29.DDD-p,p', 30.DDT-p,p', 31.Endosulfan II (beta isomer), 32.Endosulfan sulfate, 33.Methoxychlor, p,p'-, 34.Permethrin I, 35.Cypermethrin IV {CAS # 52315-07-8}, 36. Fenvalerate I, 37. Deltamethrin, 38.BHC-delta, 39. Permethrin II, 40. Fenvalerate II,	Fresh and dried Fruits & Vegetables and their products, Cereal grains and flour, honey as well as animal feed

NQTLD TESTING SCOPE 2025-2026 Rev.0

S/N	Standard Operating Procedures (SOP)/reference or Standard Methods	Parameters	Components/ If applicable	Matrix (product name)
135.	NQTLD/OCH/SOP- 25/EN 15662:2018	Pesticide residues (covers 180 components)	41. DDT-o,p', 42. Chlordane-trans(gamma), 43. Chlordane-cis(alpha), 44. Heptachlor exo-epoxide, 45. Terbutylazine, 46. Vinclozolin, 47. Triadimefon, 48. Cyprodinil, 49. Fipronil, 50. Procymidone, 51. Flutriafol, 52. Myclobutanil, 53. Flusirazole, 54. Lenacil, 55. Tebuconazole, 56. Pyriproxyfen, 57. Fenarimol, 58. Etofenprox(Ethofenprox), 59. Terbufos, 60. Tefluthrin, 61. cis-, Acrinathrin, 62. Tetramethrin I, 63. Tetramethrin II(CAS# 7696-12-0), 64. Bifenthrin, 65. Cyfluthrin I, 66. Cyfluthrin II (CAS# 68359-37-5), 67. Cyfluthrin IV(CAS # 68359-37-5), 68. Flucythrinate I, 69. Flucythrinate II(CAS #70124-77-5), 70. Phenylphenol, 2-, 71. Chrolprofam, 72. Fluazifop-butyl, 73. Chlorobenzilate, 74. Nitrofen, 75. Oxyfluorfen, 76. Pendimethalin(Pendimethalin), 77. Pentachloroaniline, 78. Chlorothalothanil, 79. Trifluralin, 80. Diphenylamine, 81. Tetrahydrophthalimide, cis-1,2,3,6-,	Fresh and dried Fruits & Vegetables and their products, Cereal grains and flour, honey as well as animal feed

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S/N	Standard Operating Procedures (SOP)/reference or Standard Methods	Parameters	Components/ If applicable	Matrix (product name)
135.	NQTLD/OCH/SOP- 25/EN 15662:2018	Pesticide residues (covers 180 components)	82. Propanil (DCPA), 83. Carfentrazone-ethyl, 84. Transfluthrin, 85. Anthraquinone, 86. Resmethrin-cis (Cismethrin), 87. Etridiazole (Terrazole, Echlomezol), 88. Pyrimethanil, 89. Terbacil, 90. MGK-264 (zengxiaoan), 91. Penconazole, 92. Triadimenol, 93. Triflumizole, 94. Bupirimate, 95. Chlorfenapyr, 96. Hexazinone, 97. Fluridone, 98. Isopropalin, 99. Fluchloralin, 100. Dicloran (Dichloran), 101. Dichloroaniline, 3,5-, 102. Sulfotep, 103. Profluralin, 104. Bromfenvinfos-(Z), 105. Bromfenvinfos, 106. Chlorthiophos, 107. Nitratin, 108. Bromophos, 109. Disulfoton, 110. Parathion-methyl, 111. Parathion, 112. Triazophos, 113. Piperonyl butoxide, 114. Fenthion, 115. Tolclofos-methyl, 116. Fenamifos (Phenamiphos), 117. Iodofenophos (Phenamifos), 118. Prothiofos, 119. Sulprofos, 120. Edifenphos,	Fresh and dried Fruits & Vegetables and their products, Cereal grains and flour, honey as well as animal feed

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S/N	Standard Operating Procedures (SOP)/reference or Standard Methods	Parameters	Components/ If applicable	Matrix (product name)
135.	NQTLT/OCH/SOP- 25/EN 15662:2018	Pesticide residues (covers 180 components)	121. Leptofos, 122. Coumaphos, 123. Isazofos (Miral, 124. Isazophos), 125. Pyridaphenthion, 126. Phosmet, 127. EPN, 128. Phosalone, 129. Azinphos-methyl, 130. Pyrazophos, 131. Pyraclofos, 132. Biphenyl, 133. Ethalfluralin, 134. Benfluralin, 135. Panclobutrazol, 136. Tricyclazole, 137. Propargite, 138. Fludioxonil, 139. Bromopropylate, 140. Diclorobenzophenone, 4,4'-, 141. Fenson, 142. Isodrin, 143. Chlorbenside, 144. DDE-o,p', 145. Nonachlor, trans-, 146. Chlorfenson, 147. DDD-o,p', 148. Ethylan (Ethyl- DDD, Perthane), 149. Nonachlor, 150. cis, Methoxychlor, o,p'-, 151. Tetradifon, 152. Mirex, 153. Endosulfan II (beta isomer), 154. Allethrin, 155. Phenothrin I, 156. Cyhalothrin (lambda), 157. Pebulate, 158. Propachlor, 159. Cycloate, 160. Dialate I, 161. Clomazone, 162. Prodiamine, 163. Pronamide (Propyzamide),	Fresh and dried Fruits & Vegetables and their products, Cereal grains and flour, honey as well as animal feed

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S/N	Standard Operating Procedures (SOP)/reference or Standard Methods	Parameters	Components/ If applicable	Matrix (product name)
135.	NQTLD/OCH/SOP- 25/EN 15662:2018	Pesticide residues (covers 180 components)	164. Alachlor, 165. Propisochlor, 166. Linuron, 167. Metolachlor, 168. Diphenamid Metolachlor, 169. Pretilachlor, 170. Oxadiazon, 171. Fenprothrin, 172. Tebufenpyrad, 173. Pyridaben, 174. Fluquinconazole, 175. Dichlorvos, 176. Tecnazene (TCNB), 177. Methidathion, 178. Dichlofenthion, 180. Etrifol	Fresh and dried Fruits & Vegetables and their products, Cereal grains and flour, honey as well as animal feed
SCOPE OF TESTING IN MATERIAL TESTING LABORATORIES UNIT-BUILDING MATERIAL LABORATORY				
1.	RS EAS 148-1	Initial setting time		CEMENT
2.	RS EAS 148-1	Final setting time of cement		
3.	RS EAS 148-1	Compressive strength of cement (including strength for 2days or 7days and 28 days strength)		
4.	RS EAS 148-2	Lost on ignition		
5.	RS EAS 148-1	Cement soundness		
6.	RS EAS 11	Zinc coating mass and Base Metal thickness of roofing sheets		ROOFING SHEETS
7.	RS EAS 11	Tensile strength of roofing sheets (3 pieces)		
8.	RS EAS 468 RS EAS 410	Bending adhesion of roofing sheets (1piece)		
9.	RS EAS 11 RS EAS 468 RS EAS 410	Marking of roofing of sheets		
10.	RS EAS 11 RS EAS 468 RS EAS 410	Dimensional test of roofing sheets		
11.	Product standard	Load test		Assembly/ Component
12.	Product standard	Compression test		Plastics pipes
13.	Product standard	Heat reversion		
14.	RS 568	Water absorption of bricks and Blocks		CEMENT BLOCKS /BRICKS

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S/N	Standard Operating Procedures (SOP)/reference or Standard Methods	Parameters	Components/ If applicable	Matrix (product name)
15.	RS 568	Compressive strength of Bricks and blocks (price for 10 specimens / batch)		CEMENT BLOCKS /BRICKS
16.	RS 568	Dimensional test of bricks/ blocks		
17.	RS 415	Water absorption of Blocks (price for 10 specimens /batch)		PAVING BLOCKS
18.	RS 415	Compressive strength of blocks (price for 10 specimens /batch)		
19.	RS 415	Dimensional test of paving blocks		
20.	RS 359	Water absorption of burnt bricks (price for 10 specimens/batch)		BURNT BRICKS
21.	RS 359	Compressive strength of burnt bricks (price for 10 specimens/batch)		
22.	RS 359	Dimensional test of burnt bricks		
23.	RS 358	Flexural strength of roofing Tiles (price for 10 specimens /batch)		CRAY ROOFING TILES
24.	RS 358	Water absorption test of roofing tiles (price for 10 specimens/batch)		
25.	RS 358	Dimensional test roofing tiles		
26.	RS ISO1920-4	Compressive strength of hardened (concrete cubes or cylinders (price for 3 specimens)		CONCRETE
27.	RS 211-1	Particle size distribution by sieve analysis		SAND
28.	ISO 1167-1	Resistance to internal hydrostatic pressure (1 to 4hrs)		Plastic pipes
29.	ISO 1167-1	Resistance to internal hydrostatic pressure (100hrs)		Plastic pipes
30.	ISO 527-1, ISO 37	Tensile test		Plastics and Composite Materials (BML)
SCOPE OF TESTING IN MATERIAL TESTING LABORATORIES UNIT NON-DESTRUCTIVE MECHANICAL TESTING				
1.	RS ISO 6506-1	Brinell Hardness of metals		Metals (NDT)
2.	NQTL/MTL/NDT/SOP-1	Chemical composition	(XRF test for up to 44 elements: (1.Sodium, 2. Magnesium, 3. Aluminum, 4.Silicon,	Metals (NDT)

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S/N	Standard Operating Procedures (SOP)/reference or Standard Methods	Parameters	Components/ If applicable	Matrix (product name)
	NQTL/MTL/NDT/SOP-1	Chemical composition	5. Phosphorus, 6. Sulfur, 7. Chlorine, 8. Potassium 9. Calcium, 10. Caesium, 11. Titanium, 12. Vanadium, 13. Chromium, 14. Manganese, 15. Iron, 16. Cobalt, 17. Nickel, 18. Copper, 19. Zinc, 20. Arsenic, 21. Selenium, 22. Rubidium, 23. Strontium, 24. Zirconium, 25. Niobium, 26. Molybdenum, 27. Ruthenium, 28. Palladium, 29. Silver, 30. Cadmium, 31. Tin, 32. Antimony, 33. Tellurium, 34. Caesium, 35. Barium, 36. Hafnium, 37. Tantalum, 38. Tungsten, 39. Gold, 40. Mercury, 41. Lead, 42. Bismuth, 43. Thorium and 44. Uranium	Metals (NDT)
3.	NQTL/MTL/NDT/SOP-1	Chemical composition	XRF test for up to 44 elements: (1. Sodium, 2. Magnesium, 3. Aluminum, 4. Silicon, 5. Phosphorus, 6. Sulfur, 7. Chlorine, 8. Potassium 9. Calcium, 10. Caesium,	SOILS ROCKS & LIQUID SAMPLES (NDT)

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NQTL TESTING SOP-1 2023 2025 REV-1				
S/N	Standard Operating Procedures (SOP)/reference or Standard Methods	Parameters	Components/ If applicable	Matrix (product name)
	NQTL/MTL/NDT/SOP-1	Chemical composition	11.Titanium, 12.Vanadium, 13. Chromium, 14.Manganese, 15. Iron, 16. Cobalt, 17. Nickel, 18. Copper, 19. Zinc, 20.Arsenic, 21. Selenium, 22. Rubidium, 23. Strontium, 24. Zirconium, 25. Niobium, 26. Molybdenum, 27. Ruthenium, 28. Palladium, 29. Silver, 30. Cadmium, 31. Tin, 32. Antimony, 33. Tellurium, 34. Caesium, 35. Barium, 36. Hafnium, 37. Tantalum, 38. Tungsten, 39. Gold, 40. Mercure, 41. Lead, 42.Bismuth, 43.Thorium and 44. Uranium	SOILS ROCKS & LIQUID SAMPLES (NDT)
4.	NQTL/MTL/NDT/SOP-1	Elemental analysis/chemical composition		School chalk (NDT)
5.	EAS 25	Moisture content of powder materials		
6.	EAS 25	Product Dimensional test		
7.	EAS 25	Product Marking inspection		
8.	RS EAS 125	Burning quality		Wax matches (NDT)
9.	RS EAS 125	Inspection of sticks		
SCOPE OF TESTING IN MATERIAL TESTING LABORATORIES UNIT-ELECTRICAL & ELECTRONICS LABORATORY				
1.	RS IEC 60227-1	Marking inspection		ELECTRICAL CABLES (EEL)
2.	NQTL/MTL/NDT/SOP-1	Chemical composition of cable conductor material		
3.	RS IEC 60227-2	Resistance of electrical cables rolls.		

S/N	Standard Operating Procedures (SOP)/reference or Standard Methods	Parameters	Components/ If applicable	Matrix (product name)
4.	Product Standard	Secondary batteries: Discharge Performance Test, for power storage batteries: Capacity range greater than 100Ah		ELECTRICAL BATTERIES (EEL)
5.	Product Standard	Secondary batteries: Charge and Discharge Performance Test, for car starter batteries and power storage batteries: Capacity range [50Ah- 100Ah]		
6.	Product Standard	Secondary batteries: Charge and Discharge Performance Test, for phone batteries computers batteries, portable medical devices batteries, CAR Capacity range: [10Ah - 50Ah]		
1.	Product Standard	Secondary batteries: Charge and Discharge Performance Test for rechargeable -phones batteries, cylindrical batteries for small apparatus. Capacity range: below 10Ah		ELECTRICAL BATTERIES (EEL)
2.	Product Standard	Discharge _Only Performance Test for primary batteries		
3.	Product Standard	Battery Voltage “as received”, primary and secondary batteries		
4.	Product Standard	Batteries marking inspection		
5.	Product Standard	Solar panel performance test at Standard Test Conditions STC (Pmpp at STC, Voc at STC , Vmpp at STC, Isc at STC, Impp at STC)		Solar Panel (EEL)
6.	Product Standard	Field Service Test by Day: Maximum Power Test at STC and Insulation resistance of PV solar system installation tested on filed		

S/N	Standard Operating Procedures (SOP)/reference or Standard Methods	Parameters	Components/ If applicable	Matrix (product name)
7.	Product Standard	Energy performance in house hold electric bulbs (Luminous Flux, lm Light efficiency, lm/w Energy Efficiency or Color Rendering Index (CRI),Power Factor (PF), b1Correlated Color Temperature (CCT) in Kelvin (°K), Light Distribution or Beam angle)		ELECTRIC LAMPS
8.	Product Standard	Marking and labeling Inspection		
SCOPE OF TESTING IN MATERIAL TESTING LABORATORIES UNIT- MECHANICAL AND METALLURGY LABORATORY				
1.	RS ISO 6892-1	Tensile strength/Yield strength/elongation	bar diameter 6mm	Steel bars for reinforcing of concrete (MML)
2.	RS ISO 6892-1		bar diameter 8mm	
3.	RS ISO 6892-1		bar diameter 10mm	
4.	RS ISO 6892-1		bar diameter 12mm	
5.	RS ISO 6892-1		bar diameter 14mm	
6.	RS ISO 6892-1		bar diameter 16mm	
7.	RS ISO 6892-1		bar diameter 20mm	
8.	RS ISO 6892-1		bar diameter 25mm	
9.	RS ISO 6892-1		bar diameter 32mm	
10.	ISO 15630-1	Three points Bend test of steel bars for reinforcing of concrete	bar diameter 6mm,8mm,10mm,12 mm	
11.	ISO 15630-1		bar diameter 14mm and 16mm	
12.	ISO 15630-2		bar diameter 20mm and 25mm	
13.	ISO 15630-1		bar diameter 32mm and above	
14.	RS ISO 6935-1&2	Dimensional test		steel bars
15.	RS ISO 6892-1	Tensile strength (Min 3 strip pieces)		Structural steels- Hollow sections (DMT)
16.	ISO 4019	Dimensional test		
17.	product related	Tensile properties (3 pieces)		Steel plates and sheets
18.	product related	Dimensional test		
19.	RS 128	Resistance to deformation		polyethylenewater tanks (BML)
20.	RS 128	Tensile properties (6 pieces)		
21.	RS 128	Dimensional test		
SCOPE OF TESTING IN MATERIAL TESTING LABORATORIES UNIT-POLYMER, LEATHER & TESTING LABORATORY				
1.	RS ISO 4074	Freedom from holes of condoms		CONDOMS (PTL)
2.	RS ISO 4074	Condom strength Bursting volume and Bursting pressure of condoms		
3.	RS ISO 4074	Pack seal integrity of condoms		

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S/N	Standard Operating Procedures (SOP)/reference or Standard Methods	Parameters	Components/ If applicable	Matrix (product name)
4.	RS ISO 4074	Condoms dimensions (width and length)		CONDOMS (PTL)
5.	RS ISO 4074	Design and inspection of labeling requirements		
6.	RS ISO 4074	Thickness of condoms and Quantity of lubricant in condom container		
7.	EAS 378-1	Tensile properties		MATRESS (PTL)
8.	EAS 378-1	Tear resistance		
9.	EAS 378-1	Density		
10.	EAS 378-1	Dimensions		
11.	EAS 378-1	Compression set (3 pieces)		
12.	EAS 378-1	Marking inspection		LEATHER MATERIALS (PTL)
13.	ISO 3376	Tensile strength of leather materials and Percentage extension of leather materials		
14.	NQTLT/MTLU/PTL/SO P-6	Resistance to tearing load of leather materials		
		Thickness of leather materials		
15.	ISO 5402	Flex resistance of leather materials		
16.	ISO 2420	Apparent density		
17.	RS EAS 355	Tensile strength		TOILET PAPER (PTL)
18.	RS EAS 355	Tissue paper substance/grammage		
19.	RS EAS 355	Dimensional test		
20.	RS EAS 355	Design and inspection of labeling requirements		
21.	ISO 287	Moisture content		
22.	ISO 2758	Bursting strength		base paper for waxed bread wrap (PTL)
23.	ISO 1924	Tearing strength		
24.	ISO 536	Substance/grammage		paper serviettes (napkins) (PTL)
25.	ISO 12625-4	Tensile strength		
26.	ISO 287	Moisture content		
27.	ISO 22198	Dimensional test		
28.	ISO 536	Grammage		
29.	RS EAS 861	Design and inspection of labeling requirements		Facial tissue paper (PTL)
30.	ISO 12625-6	Grammage		
31.	ISO 22198	Dimensional test		
32.	RS EAS 862	Design and inspection of labeling requirements		
33.	ISO 12625-4	Tensile strength		Office papers (PTL)
34.	ISO 536	Grammage		
35.	ISO 287	Moisture content		
36.	ISO 1974	Elmendorf Tear index		
37.	ISO 535	Water absorptiveness		

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S/N	Standard Operating Procedures (SOP)/reference or Standard Methods	Parameters	Components/ If applicable	Matrix (product name)
38.	ISO 536	Grammage		Photocopy paper (PTL)
39.	ISO 287	Moisture content		
40.	ISO 534	Thickness		
41.	ISO 1974	Elmendorf Tear index		
42.	ISO 536	Grammage		Cement bags paper (PTL)
43.	ISO 287	Moisture content		
44.	ISO 1924-2	Tensile strength		
45.	ISO 5636	Porosity or Air permeability		
46.	ISO 1974	Elmendorf Tear resistance		
47.	ISO 535	Water absorptiveness		Waxed paper for bread wrap (PTL)
48.	NQTL/MTL/NDT/SOP-	Heavy metal content		
49.	ISO 536	Grammage		Sack Kraft paper (PTL)
50.	ISO 536	Grammage		
51.	ISO 287	Moisture content		
52.	ISO 1924-3	Tensile strength		
53.	ISO 535	Water absorptiveness		
54.	ISO 1924-3	Tear index		
55.	ISO 1924-3	Tensile index		
56.	ISO 2758	Bursting strength		Paper bags (PTL)
57.	ISO 536	Grammage		
58.	ISO 2758	Bursting strength		Paper bags (PTL)
59.	ISO 1974	Elmendorf Tearing resistance		
60.	ISO 535	Water absorptiveness		
61.	ISO 536	Grammage		Wrapping paper (PTL)
62.	ISO 2758	Bursting strength		
63.	ISO 1974	Tearing resistance		
64.	ISO 13934-1	Tensile strength		
65.	ISO 9073-4	Tear strength		TEXTILE (PTL)
66.	ISO 3801	Specific weight (mass per unit area)		
67.	ISO 22198	Dimensional test		
68.	ISO 7784-1&2	Resistance to abrasion		
69.	ISO 811	Resistance to water penetration		
70.	ISO 105-C06	Color Fastness to weathering		
71.	ISO 105-C06	Color Fastness to washing		
72.	ISO 105-X12	Color Fastness to Rubbing		
73.	Equipment method	Color measurement		
74.	Equipment method	Color Fastness to light		
75.	ISO 1833	Fiber composition		
76.	ISO 5077	Dimensions change after washing		Paints and Coatings (PTL)
77.	ISO 16809	Dry film thickness test		
78.	ISO 7784-1&2	Resistance to Abrasion		
79.	ISO 2813	Gloss value		
80.	ISO 2813	Loss of Gloss to weathering		
81.	ISO 2811-4	Density or Specific Gravity		

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S/N	Standard Operating Procedures (SOP)/reference or Standard Methods	Parameters	Components/ If applicable	Matrix (product name)
82.	ISO 9117-3	Drying Time of paint		
83.		Hardness test		
84.	RS EAS 851 2016	pH		
85.	ISO 1524	Fineness of paint granules		
86.	ISO 3251	Non Volatile matter		
87.	EAS 148-2	Loss on Ignition		Cement (PTL)
88.	EAS 148-2	Chloride content		
89.	EAS 148-2	Sulphate content		
90.	ISO 14855-2	Biodegradability		Plastics and alternative Products to plastics (PTL)
91.	ISO 1133-1	Melt Flow rate		
92.	ASTM D3826:2018	Degradation End Point Test		
93.	ISO 1833	Insoluble polymeric residues		
94.	ISO 2758	Bursting strength		
95.	ISO 5636	Porosity or Air Permeability		
96.	ISO 536	Grammage		
97.	ISO 22198	Dimensions		
98.	Product standard	Migration		
99.	MTL/NDT/SOP-1	Heavy Metals		
100.	ISO 1924-2	Tear factor		Notebook books (PTL)
101.	ISO 22198	Dimension Test		
102.	ISO 536	Grammage/substance		Notebook books (PTL)
103.	ISO 535	Water Absorptiveness		
104.	RS ISO 4074	Design and Inspection of labeling or Packaging requirements		
105.	ISO 811	Resistance to water penetration		Water Resistants materials (Tarpulins, Tents, water bladders, etc) (PTL)
106.	ISO 13934-1	Tensile Strength		
107.	ISO 9073-4	Tear Strength		
108.	ISO 3801	Specific weight (Mass per unit area)		
109.	ISO 7784-1,2	Resistance to Abrasion		Materials resistance to abrasion Textile and polymers materials (PTL)

SCOPE OF TESTING IN MATERIAL TESTING LABORATORIES UNIT- COOKING STOVES TESTING LABORATORY

1.	ISO 19867-1	Thermal efficiency and Emission (CO: Carbon monoxide, CO2: Carbon dioxide and PM2.5: particulate matter 2.5)		Cook Stoves
2.	ISO 19867-1	Safety and durability		
3.	ISO 19867-1	Dimensions		
4.	ISO 19867-1	Marking inspection		
5.	Product standard	Moisture content		Solid fuel
6.	Product standard	Fuel ash content		
7.	Product standard	Calorific value		

SCOPE OF TESTING IN MATERIAL TESTING LABORATORIES UNIT- SAFETY HELMET TESTING LABORATORY

S/N	Standard Operating Procedures (SOP)/reference or Standard Methods	Parameters	Components/ If applicable	Matrix (product name)
1.	RS 576:2024	Helmet Impact Absorption test		Helmet
2.	RS 576:2024	Helmet Dynamic test of the retention system		
3.	RS 576:2024	Helmet Rigidity test		
4.	RS 576:2024	Helmet Projection test		
5.	RS 576:2024	Helmet Friction test		
6.	RS 576:2024	Helmet Retention test		
7.	RS 576:2024	Helmet Marking inspection test		
8.	RS 576:2024	Helmet Materials types analysis		

SCOPE OF TESTING IN MATERIAL TESTING LABORATORIES UNIT- FURNITURE TESTING LABORATORY

1.	ISO STANDARDS	Durability of furniture's (tables, desk, chairs, sofa's, beds, shelves, cupboard)		Furniture
2.	ISO STANDARDS	Stability of furniture's (tables, desk, chairs, sofa's, beds, shelves, cupboard)		

Approved by :



Digitally signed
by RSB(DIVISION
MANAGER)

Date: 2025.08.29
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