National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : QUALITY CONTROL LABORATORY, ORDNANCE FACTORY ITARSI, A UNIT OF MUNITIONS INDIA LIMITED, HOSHANGABAD, ITARSI, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Nitro Cellulose	Heat test	JSS 1376-10
2	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Acetone	Acidity (as Acetic acid)	IS 170
3	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Acetone	Alcoholic impurities	IS: 170
4	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Acetone	Alkalinity	IS:170
5	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Acetone	Colour, Pt-Co scale	IS 170
6	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Acetone	Permaganate Test	IS 170
7	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Acetone	Residue on evaporation	IS: 170
8	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Bleached Cotton Linter	Matter soluble in 3% Boiling alkali	JSS 8305-14
9	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Bleached Cotton Linter	Acidity	JSS: 8305-14
10	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Bleached Cotton Linter	Alpha-Cellulose content	JSS:8305-14
11	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Bleached Cotton Linter	Copper number	JSS:8305-14
12	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Bleached Cotton Linter	Ether soluble matter	JSS:8305-14
13	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Bleached Cotton Linter	Malachite Green Dye Test	JSS:8305-14
14	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Bleached Cotton Linter	Matter soluble in 1% boiling alkali	JSS:8305-14
15	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Bleached Cotton Linter	Mineral matter	JSS:8305-14
16	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Bleached Cotton Linter	Moisture content	JSS:8305-14
17	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Carbamite	Melting Test	JSS-6810-125
18	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Carbamite	Acidity	JSS-6810-125

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19	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Carbamite	Size requirement	JSS-6810-125
20	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Carbamite	Volatile matter	JSS-6810-125
21	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Concentrate Sulphuric Acid	Total Acidity (as H2SO4),	IS:266
22	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Di –Phenyl Amine	Mineral Matter (i.e residue on ignition)	JSS-6810-129
23	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Di –Phenyl amine	Organic matter insoluble in Ether Alcohol	JSS-6810-129
24	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Di –Phenyl amine	Primary, Amine, Calculated as Aniline	JSS-6810-129
25	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Di –Phenyl amine	Reaction Acidity (as H2SO4)	JSS-6810-129
26	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Di –Phenyl amine	Reaction Alkalinity (as Na2CO3)	JSS-6810-129
27	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Di-n-Butyl phthalate	Acidity (as phthalic acid)	IS:9591
28	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Di-n-Butyl phthalate	Colour	IS:9591
29	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Di-n-Butyl phthalate	Colour after heat treatment	IS:9591
30	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Di-n-Butyl phthalate	Ester Value	IS 9591
31	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Di-n-Butyl phthalate	Refractive Index	IS:9591
32	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Di-n-Butyl Pthalate (plasticizer ester)	Water content	IS 9591
33	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Di-phenyl amine	Organic bases alkaline to Methyl orange calculated as Aniline	JSS-6810-129
34	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Di–Phenyl amine	Moisture (over caustic potash in vacuum desiccator)	JSS 6810-129
35	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ethyl Acetate	Acidity as acetic acid	IS 229
36	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ethyl Acetate	Ester content as Ethyl Acetate	IS 229

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37	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ethyl Acetate	Residual on evaporation	IS 229
38	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ethyl Acetate	Water content	IS 229
39	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Glycerine (Dynamite Grade)	Glycerol	IS1796
40	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Glycerine (Dynamite Grade)	Alkalinity (as Na2O)	IS1796
41	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Glycerine (Dynamite Grade)	Chloride (as Cl)	IS1796:1986
42	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Glycerine (Dynamite Grade)	Colour	IS1796
43	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Glycerine (Dynamite Grade)	Ether soluble matter	IS1796
44	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Glycerine (Dynamite Grade)	Fatty Acid and Esters(as Na2O)	IS1796
45	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Glycerine (Dynamite Grade)	Reducing substances	IS 1796
46	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Glycerine (Dynamite Grade)	Sulphates (as SO4)	IS1796
47	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Glycerine (Dynamite Grade)	Sulphuric acid test	JSS-6810-109
48	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Glycerine (Dynamite Grade)	Water content	JSS-6810-109
49	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Graphite (Dry Sulphur Free)	Matter soluble in ethyl ether	JSS-9620-01
50	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Graphite (Dry Sulphur Free)	Volatile matter	JSS-9620-01
51	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Graphite (Dry Sulphur Free)	Matter soluble in cold water	JSS-9620-01
52	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Graphite (Dry Sulphur Free)	Sulphur and compounds of sulphur calculated as Sulphuric acid	JSS-9620-01
53	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Graphite (Dry Sulphur Free)	Gritty particles in the ash	JSS-9620-01
54	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Graphite (Dry Sulphur Free)	pH of aqueous extract	JSS-9620-01

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55	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Guanidine Nitrate	Melting point	JSS-6810-95
56	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Guanidine Nitrate	pH of water extract	JSS-6810-95
57	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Guanidine Nitrate	Residue on ignition	JSS-6810-95
58	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Guanidine Nitrate	Ammonium Nitrate	JSS-6810-95
59	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Guanidine Nitrate	Guanidine Nitrate	JSS-6810-95
60	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Guanidine Nitrate	Moisture Content	JSS-6810-95
61	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Iso-propyl alcohol	Acidity as Acetic acid	IS 2631
62	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Iso-propyl alcohol	Aldehydes & Ketones (as acetone)	IS 2631
63	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Iso-propyl alcohol	Residue on evaporation	IS2631
64	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Iso-propyl alcohol	Water content	IS2631
65	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Nitro Cellulose	Mineral matter / ash content	JSS 1376-10
66	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Nitro Cellulose	Alkalinity calculated as calcium carbonate	JSS 1376-10
67	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Nitro Cellulose	B&J Test	JSS 1376-10
68	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Nitro Cellulose	Organic matter , soluble in Ether Alcohol	JSS 1376-10
69	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Nitro Cellulose	Organic matter insoluble in acetone	JSS 1376-10
70	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Nitro Cellulose	Pulping Fineness (Settling test)	JSS 1376-10
71	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Nitro Cellulose	Sulphate calculated as Sulphuric acid	JSS 1376-10
72	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Nitro Glycerine	Alkalinity, calculated as Sodium	JSS:1375-04
73	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Nitro Glycerine	Heat test	JSS:1375-04

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74	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Nitro Glycerine	Volatile matter	JSS:1375-04
75	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Nitroguanidine	Chlorides calculated as Sodium chloride	JSS:1376-03
76	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Nitroguanidine	Acidity, calculated as Sulphuric acid	JSS:1376-03
77	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Nitroguanidine	Grit	JSS:1376-03
78	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Nitroguanidine	Iron compounds calculated as Iron	JSS:1376-03
79	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Nitroguanidine	Nitrates calculated as Sodium Nitrate	JSS:1376-03
80	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Nitroguanidine	Nitroguanidine (Picrite) content	JSS:1376-03
81	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Nitroguanidine	pH of water extract	JSS:1376-03
82	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Nitroguanidine	Specific surface	JSS:1376-03
83	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Nitroguanidine	Sulphates, calculated as Sodium Sulphate	JSS:1376-03
84	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Nitroguanidine	Volatile Matter	JSS:1376-03
85	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Nitroguanidine	Water insoluble impurities	JSS:1376-03
86	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Nitroguanidine	Water soluble impurities	JSS:1376-03
87	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Oleum	Free Sulphur trioxide (as SO3)	IS 1089
88	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Oleum	Strength (as H2SO4)	IS 1089
89	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Nitrate	Hygroscopicity	IS 301
90	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Nitrate	Matter insoluble in water	IS 301
91	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Nitrate	Acidity	IS 301
92	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Nitrate	Chlorides (as KCl)	IS 301

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93	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Nitrate	Nitrite(as KNO2)	IS 301
94	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Nitrate	Alkalinity	IS 301
95	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Nitrate	Ammonium compound (as NH3)	IS 301
96	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Nitrate	Chlorates	IS 301
97	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Nitrate	Grit	IS 301
98	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Nitrate	Matter insoluble in Aqua regia	IS 301
99	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Nitrate	Metallic radicals other than Potassium & Sodium	IS 301
100	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Nitrate	Per chlorates (as KClO4)	IS 301
101	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Nitrate	Potassium Nitrate(as KNO3)	IS 301
102	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Nitrate	Sodium compound (as NaNO3)	IS 301
103	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Nitrate	Sulphate (as K2SO4)	IS 301
104	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Nitrate	Water insoluble organic matter	IS 301
105	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Sulphate	Compounds of metals other than Potassium, calculated as their oxides	JSS:6810-110
106	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Sulphate	Ammonium compound calculated as Ammonia	JSG:0112
107	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Sulphate	Chloride calculated as Potassium chloride	JSS :6810-110
108	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Sulphate	Moisture	JSG:0112
109	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Sulphate	Potassium Sulphate content	JSS:6810-110

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110	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Sulphate	Reaction of 10% aqueous extract to Bromo thymol blue indicator. a) Acidity as Sulphuric acid b) Alkalinity as Potassium hydroxide	JSG:0112
111	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Sulphate	Water insoluble matter	JSG:0112
112	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Protein Colloid	Acidity (Inorganic)	IND/ME/915(prov.)
113	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Protein Colloid	Gum with tannin base	IND/ME/915(prov.)
114	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Protein Colloid	Insoluble residue	IND/ME/915(prov.)
115	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Protein Colloid	Moisture content	IND/ME/915(prov.)
116	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Protein Colloid	Organic Acidity as Acetic Acid	IND/ME/915(prov.)
117	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Protein Colloid	Starch & Dextrin	IND/ME/915(prov.)
118	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Residual Sulphuric Acid	Total Acidity (as H2SO4),	IS:266
119	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Soda Ash	Chlorides(as NaCl)	IS 251
120	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Soda Ash	Iron (as Fe2O3)	IS 251
121	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Soda Ash	Matter insoluble in water	IS 251
122	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Soda Ash	Sulphate (as Na2SO4)	IS 251
123	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Soda Ash	Total alkalinity (as Na2CO3)	IS251
124	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Sodium Sulphate	Loss on drying	IS 255
125	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Sodium Sulphate	Chlorides (as NaCl)	IS 255
126	CHEMICAL- EXPLOSIVES & PYROTECHNICS	SODIUM SULPHATE	IRON (as Fe)	IS 255
127	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Sodium Sulphate	Iron, Aluminium & Chromium (as R2O4)	IS 255

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128	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Sodium Sulphate	Matter insoluble in water	IS 255
129	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Sodium Sulphate	pH (of 10% solution)	IS:255
130	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Sodium Sulphate	Sodium Sulphate (as Na2SO4)	IS: 255
131	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Strong Nitric Acid Technical grade	Nitrous as (HNO2)	IS:264
132	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Strong Nitric Acid Technical grade	Total Acidity (as HNO3)	IS:264
133	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Weak Nitric Acid	Total Acidity (as HNO3)	IS:264