National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ECONOMIC EXPLOSIVES LIMITED, VILLAGE SAWANGA, P.O. SHIWA, NAGPUR, MAHARASHTRA, 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	1, 2, 6 Hexane Triol (HT)	Appearance	HEMRL/SRP/PJ-10/HTM-LTM/2018/01
2	CHEMICAL- EXPLOSIVES & PYROTECHNICS	1, 2, 6 Hexane Triol (HT)	Density at 20°C	HEMRL/SRP/PJ-10/HTM-LTM/2018/01 Enclosure 9A
3	CHEMICAL- EXPLOSIVES & PYROTECHNICS	1, 2, 6 Hexane Triol (HT)	Moisture content	HEMRL/SRP/PINAKA MKII/ TOT/2014/01 ANNEXURE-III
4	CHEMICAL- EXPLOSIVES & PYROTECHNICS	1,4 Butanediol (nBD)	Appearance	HEMRL/SRP/PINAKA MKII/ TOT/2014/01
5	CHEMICAL- EXPLOSIVES & PYROTECHNICS	1,4 Butanediol (nBD)	Boiling point	HEMRL/SRP/PJ-10/HTM-LTM/2018/01
6	CHEMICAL- EXPLOSIVES & PYROTECHNICS	1,4 Butanediol (nBD)	Hydroxyl value	HEMRL/AK/BST/PROP/RM/1, APPENDIX-I.
7	CHEMICAL- EXPLOSIVES & PYROTECHNICS	1,4 Butanediol (nBD)	Moisture content	HEMRL/AK/BST/PROP/RM/1, APPENDIX-II
8	CHEMICAL- EXPLOSIVES & PYROTECHNICS	1,4 Butanediol (nBD)	Refractive Index at 30 °C	HEMRL/AK/BST/PROP/RM/1, APPENDIX-IV
9	CHEMICAL- EXPLOSIVES & PYROTECHNICS	1,4 Butanediol (nBD)	Specific Gravity at 30 °C	HEMRL/AK/BST/PROP/RM/1, APPENDIX-III
10	CHEMICAL- EXPLOSIVES & PYROTECHNICS	1,4 Butanediol (nBD)	Viscosity 30 °C	ERDL/TRIM/PROP/RM/5, APPENDIX-RM/5/II
11	CHEMICAL- EXPLOSIVES & PYROTECHNICS	4, 4’ Methylene Bis (Cyclohexyl Diisocyanate) (H12MDI)	Appearance	HEMRL/SRP/PJ-10/HTM-LTM/2018/01
12	CHEMICAL- EXPLOSIVES & PYROTECHNICS	4, 4’ Methylene Bis (Cyclohexyl Diisocyanate) (H12MDI)	Purity	HEMRL/SRP/PJ-10/HTM-LTM/2018/01 Enclosure 8
13	CHEMICAL- EXPLOSIVES & PYROTECHNICS	4, 4’ Methylene Bis (Cyclohexyl Diisocyanate) (H12MDI)	Refractive index at 30°C	HEMRL/SRP/PJ-10/HTM-LTM/2018/01 Enclosure 7
14	CHEMICAL- EXPLOSIVES & PYROTECHNICS	4, 4’ Methylene Bis (Cyclohexyl Diisocyanate) (H12MDI)	Specific gravity at 30°C	HEMRL/SRP/PJ-10/HTM-LTM/2018/01 Enclosure 9A
15	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Adipic Acid	Ash content	ERDL/TRIM/PROP/RM/11, APPENDIX-RM/11/III
16	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Adipic Acid	Assay	ERDL/TRIM/PROP/RM/11, APPENDIX-RM/11/I
17	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Adipic Acid	Loss on drying	ERDL/TRIM/PROP/RM/11, APPENDIX-RM/11/IV
18	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Adipic Acid	Melting point	ERDL/TRIM/PROP/RM/11, APPENDIX-RM/11/II

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19	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Aluminium powder	Acid insoluble	HEMRL/Bi-AP/2019/1
20	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Aluminium powder	Apparent Density	ERDL/TRIM/PROP/RM/2, APPENDIX-RM/2/IV
21	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Aluminium Powder	Apparent Density	IS 438, APPENDIX (L)
22	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Aluminium powder	Appearance	HEMRL/SRP/PJ-10/HTM-LTM /2018/01
23	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Aluminium powder	Assay (Free metallic aluminium)	ERDL/TRIM/PROP/RM/2, APPENDIX-RM/2/III, VOGEL ANALYSIS BOOK
24	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Aluminium powder	Average particle size	ERDL/TRIM/PROP/RM/2, APPENDIX-RM/2/V
25	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Aluminium powder	Iron content	HEMRL/SRP/122mmERR/PD/2015/01, 5.1.23
26	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Aluminium powder	Matter soluble in Ether	ERDL/TRIM/PROP/RM/2, APPENDIX-RM/2/I
27	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Aluminium powder	Purity (as Al)	VOGEL's QUANTITATIVE CHEMICAL ANALYSIS PAGE No. 446 & 447
28	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Aluminium Powder	Volatile Matter	IS 438, APPENDIX (C)
29	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Aluminium powder	Volatile Matter content	ERDL/TRIM/PROP/RM/2 APPENDIX-RM/2/II
30	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ammonium perchlorate	Sieve analysis	ERDL/TRIM/PROP/RM/1APPENDIX-RM/1/X
31	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ammonium perchlorate	Sieve analysis > 500 µm	ERDL/TRIM/PROP/RM/1APPENDIX-RM/1/X
32	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ammonium perchlorate	Sieve analysis 300 - 45 µm	ERDL/TRIM/PROP/RM/1APPENDIX-RM/1/X
33	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ammonium perchlorate	Sieve analysis 355 - 300 µm	ERDL/TRIM/PROP/RM/1APPENDIX-RM/1/X
34	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ammonium perchlorate	Sieve analysis 500 - 355 µm	ERDL/TRIM/PROP/RM/1APPENDIX-RM/1/X
35	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ammonium perchlorate	Bromates (calculated as $NaBrO_3$)	ERDL/TRIM/PROP/RM/1 APPENDIX-RM/1/IV
36	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ammonium perchlorate	Chlorates (calculated as $NaClO_3$)	ERDL/TRIM/PROP/RM/1 APPENDIX-RM/1/III

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37	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ammonium perchlorate	Chlorides (calculated as NH4Cl)	ERDL/TRIM/PROP/RM/1 APPENDIX-RM/1/II
38	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ammonium perchlorate	pH	ERDL/TRIM/PROP/RM/1 APPENDIX-RM/1/IX
39	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ammonium perchlorate	Purity	ERDL/TRIM/PROP/RM/1 APPENDIX - RM/1/I
40	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ammonium perchlorate	Sieve size, -105 micron (-150 BSS)	ERDL/TRIM/PROP/RM/1 APPENDIX-RM/1/X
41	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ammonium perchlorate	Sieve size, -150 micron + 105 micron (-100 BSS + 150 BSS)	ERDL/TRIM/PROP/RM/1 APPENDIX-RM/1/X
42	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ammonium perchlorate	Sieve size, -300 micron + 150 micron (-52 BSS + 100 BSS)	ERDL/TRIM/PROP/RM/1 APPENDIX-RM/1/X
43	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ammonium perchlorate	Sulphate (calculated as (NH4)2SO4)	ERDL/TRIM/PROP/RM/1 APPENDIX-RM/1/VI
44	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ammonium perchlorate	Sulphate ash	ERDL/TRIM/PROP/RM/1 APPENDIX-RM/1/V
45	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ammonium perchlorate	Surface moisture content	HEMRL/SRP/PINAKA-MK-II/TOT/2014/01 ANNEXURE - III, 3
46	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ammonium perchlorate	Total moisture content	ERDL/TRIM/PROP/RM/1 APPENDIX-RM/1/VIII
47	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ammonium perchlorate	Water insoluble matter	ERDL/TRIM/PROP/RM/1 APPENDIX-RM/1/VII
48	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Antimony Trioxide	Alkalinity / Acidity	HEMRL/TRIM/PROP/IM/17, APPENDIX-IM/17/II
49	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Antimony Trioxide	Appearance	HEMRL/TRIM/PROP/IM/17
50	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Antimony Trioxide	Purity (as Sb2O3)	HEMRL/TRIM/PROP/IM/17, APPENDIX-IM/17/III
51	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Antimony Trioxide	Volatile matter content	HEMRL/TRIM/PROP/IM/17, APPENDIX-IM/17/I
52	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Antimony Trisulphide	Antimony oxide (as Sb2O3)	IS 5731, APPENDIX (A-6)
53	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Antimony Trisulphide	Bulk Density	IS 7886, APPENDIX (A-6)
54	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Antimony Trisulphide	Total Combined Antimony (as Sb)	IS 5731, APPENDIX (A-5)

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55	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Antimony trisulphide	Volatile matter	IS 5731, APPENDIX (A-2)
56	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Barium chromate	Apparent density	IS 7886, APPENDIX (A-10)
57	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Barium chromate	Average particle size	IS 7886, APPENDIX (A-8)
58	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Barium chromate	Bulk density	IS 7886, APPENDIX (A-6)
59	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Barium chromate	Fineness material retained on 45 µ IS Sieve	IS 7886, APPENDIX (A-7)
60	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Barium chromate	Matter soluble in water	IS 7886, APPENDIX (A-3)
61	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Barium chromate	Moisture re-absorption (at 90% RH for 24 Hrs.)	IS 7886, APPENDIX (A-5)
62	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Barium chromate	Purity (as $BaCrO_4$)	IS 7886, APPENDIX (A-9)
63	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Barium chromate	Purity (as BaO)	IS 7886, APPENDIX (A-9)
64	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Barium chromate	Purity (as CrO_3)	IS 7886, APPENDIX (A-9)
65	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Barium chromate	Volatile matter	IS 7886, APPENDIX (A-2)
66	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Barium chromate	Water soluble chlorides (as Cl)	IS 7886, APPENDIX (A-4)
67	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Barium nitrate	Barium nitrate (as $Ba(NO_3)_2$) content	IS 4396, APPENDIX (A-15)
68	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Barium nitrate	Chlorides (as NaCl)	IS 4396, APPENDIX (A-8)
69	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Barium nitrate	Grit content	IS 4396, APPENDIX (A-6)
70	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Barium nitrate	Hygroscopicity	IS 4396, APPENDIX (A-5)
71	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Barium nitrate	Moisture	IS 4396, APPENDIX (A-3)
72	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Barium nitrate	Organic matter insoluble in water	IS 4396, APPENDIX (A-4)
73	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Barium nitrate	pH of 5% solution	IS 4396, APPENDIX (A-7)

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74	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Barium nitrate	Total matter insoluble in water	IS 4396, APPENDIX (A-4)
75	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Boron	Sieve size retained on 0.063 mm IS sieve	DEF. STAND.13-128, METHOD NO. A.12
76	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Boron	Volatile matter	DEF. STAND.13-128, METHOD NO. A.4
77	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Carbon Black	Appearance/Type	HEMRL/SRP/PJ-10/HTM-LTM/2018/01
78	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Carbon Black	Moisture content	HEMRL/SRP/122mmERR/PD/2015/01, 5.1.4; HEMRL/SRP/PINAKA MKII/TOT/2014/01 ANNEXURE-III
79	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Carbon Black	Particle size	HEMRL/SRP/PJ-10/HTM-LTM/2018/01 Enclosure 13
80	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Carbon Black	pH of aqueous slurry	HEMRL/Bi-AP/2019/1, 3.6
81	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Carbon Black	Volatile matter at 105 °C for 2Hrs	HEMRL/SRP/PJ-10/HTM-LTM/2018/01 Enclosure 6
82	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Castor Oil	Acid number	IS 548 (Part 1) : 1964 RA-2015, 7
83	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Castor Oil	Appearance	IS 435 : 1973 RA-2015; IS 548 (Part 1) : 1964 RA- 2015
84	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Castor Oil	Hydroxyl value	IS 548 (Part 1) : 1964 RA-2015, 16
85	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Castor Oil	Moisture Content	IS 548 (Part 1) : 1964 RA-2015, 5
86	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Castor Oil	Saponification number	IS 548 (Part 1) : 1964 RA-2015, 15
87	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Castor Oil	Specific gravity at 30°C	IS 548 (Part 1) : 1964 RA-2015, 11
88	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Castor Oil	Viscosity at 30°C	ERDL/TRIM/PROP/RM/5, APPENDIX-RM/5/II
89	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Charcoal	Ash content	IS 13522, APPENDIX (A-4)
90	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Charcoal	Bulk Density	IS 13522, APPENDIX (A-8)
91	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Charcoal	Fixed carbon content	IS 13522, APPENDIX (A-7)

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92	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Charcoal	Moisture	IS 13522, APPENDIX (A-3)
93	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Charcoal	Volatile matter	IS 1350 (Part I), METHOD NO. 7.4
94	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition CU1	Composition: (i) Red Lead content	IND/ME/950(A)(PROV), APPENDIX (B)
95	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition CU1	Composition: (ii) Zirconium content	IND/ME/950(A)(PROV), APPENDIX (B)
96	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition CU1	Composition: (iii) Lacquer, clear nitrocellulose (APC-217) content	IND/ME/950 (A) (PROV) , APPENDIX (B)
97	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition CU1	Volatile matter	JSG 0112, METHOD NO. 1 (a)
98	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition II & III	Moisture	JSS 1376-05, APPENDIX (B)
99	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition II & III	Ratio analysis: (ii) Sulfur content	JSS 1376-05, APPENDIX (Q)
100	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition II & III	Ratio analysis: (iii) Charcoal content	JSS 1376-05, APPENDIX (Q)
101	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition II & III	Ratio analysis: (i) Potassium Nitrate content	JSS 1376-05, APPENDIX (Q)
102	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition L mix	Moisture content	IND/ME/1019 (Prov), METHOD NO. 7.3
103	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition L mix	Ratio analysis (i) Barium Nitrate content	IND/ME/1019 (Prov), METHOD NO. 7.4.1
104	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition L mix	Ratio analysis (ii) Lead Dinitro Resorcinol content	IND/ME/1019 (Prov), METHOD NO. 7.4.2
105	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition L mix	Ratio analysis (iii) Tetrazene content	IND/ME/1019 (Prov), METHOD NO. 7.4.3
106	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-147	Chemical Analysis: (i) Plasticized Ethyl Cellulose Content	DRDL/TSQD/AK/052, Rev 2, APPENDIX-J
107	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-147	Chemical Analysis: (ii) Potassium nitrate content	DRDL/TSQD/AK/052, Rev 2, APPENDIX-J
108	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-147	Chemical Analysis: (iii) Magnesium content	DRDL/TSQD/AK/052, Rev 2, APPENDIX-J
109	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-147	Volatile Matter	DRDL/TSQD/AK/052, Rev 2, APPENDIX-G

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110	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-412 (M)	Composition: (i) Barium Chromate content	IND/ME/820 (PROV), APPENDIX 'C'
111	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-412 (M)	Composition: (ii) Potassium Perchlorate content	IND/ME/820 (PROV), APPENDIX 'C'
112	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-412 (M)	Composition: (iii) Antimony trisulfide content	IND/ME/820 (PROV), APPENDIX 'C'
113	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-412 (M)	Composition: (iv) NC Binder (APC-217) content	IND/ME/820 (PROV), APPENDIX 'C'
114	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-412 (M)	Volatile Matter	JSG 0112, METHOD NO. 1 (a)
115	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-422	Composition: (i) Potassium perchlorate content	ERDL/PYRO/PS/204, APPENDIX-B
116	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-422	Composition: (ii) Aluminium powder content	ERDL/PYRO/PS/204, APPENDIX-B
117	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-422	Composition: (iii) NC Binder content	ERDL/PYRO/PS/204, APPENDIX-B
118	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-422	Volatile Matter	JSG 0112, METHOD NO. 1(a)
119	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-433	Composition: (i) Red Lead content	ERDL/PYRO/PS/118, APPENDIX-C
120	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-433	Composition: (ii) NC Binder content (APC-217)	ERDL/PYRO/PS/118, APPENDIX-C
121	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-433	Composition: (iii) Zirconium content	ERDL/PYRO/PS/118, APPENDIX-C
122	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-433	Volatile Matter	JSG 0112, METHOD NO. 1(a)
123	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-436	Composition: (i) Potassium perchlorate content	ERDL/PYRO/PS-129, APPENDIX-B
124	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-436	Composition: (ii) Lead Ferrocyanide content	ERDL/PYRO/PS-129, APPENDIX-B
125	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-436	Composition: (iii) NC Binder content (APC 217)	ERDL/PYRO/PS/129, APPENDIX-B
126	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-436	Volatile Matter	JSG 0112, METHOD NO. 1(a)
127	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-436 (a)	Composition: (ii) Lead Ferrocyanide content	ERDL/PYRO/PS-129, APPENDIX-B
128	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-436(a)	Composition: (i) Potassium perchlorate content	ERDL/PYRO/PS-129, APPENDIX-B

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129	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-436(a)	Composition: (iii) NC Binder (APC-217) content	ERDL/PYRO/PS-129, APPENDIX-B
130	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-436(a)	Volatile Matter	JSG 0112, METHOD NO. 1(a)
131	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-445	Chemical Analysis: (i) Potassium nitrate content	HERML/SPRINT/IGN/ME-445 (PROV), APPENDIX 'M'
132	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-445	Chemical Analysis: (ii) Plasticized Ethyl Cellulose Content	HEMRL/SPRINT/IGN/ME-445 (PROV), APPENDIX 'M'
133	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-445	Chemical Analysis: (iii) Boron content	HERML/SPRINT/IGN/ME-445 (PROV), APPENDIX 'M'
134	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-445	Volatile Matter	HEMRL/SPRINT/IGN/ME-445 (PROV), APPENDIX 'K'
135	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-446	Composition: (i) Potassium perchlorate content	ERDL/PYRO/PS/204, APPENDIX 'B'
136	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-446	Composition: (ii) Aluminium powder content	ERDL/PYRO/PS/204, APPENDIX 'B'
137	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-446	Composition: (iii) NC Binder (APC-217) content	ERDL/PYRO/PS/204, APPENDIX 'B'
138	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-446	Volatile Matter	JSG 0112, METHOD NO. 1(a)
139	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-446(a)	Composition: (i) Potassium perchlorate content	ERDL/PYRO/PS/204, APPENDIX 'B'
140	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-446(a)	Composition: (ii) Aluminium powder content	ERDL/PYRO/PS/204, APPENDIX 'B'
141	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-446(a)	Composition: (iii) NC Binder (APC-217) content	ERDL/PYRO/PS/204, APPENDIX 'B'
142	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-446(a)	Volatile Matter	JSG 0112, METHOD NO. 1(a)
143	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-447	Chemical Analysis: (i) Plasticized Ethyl Cellulose Content	IGN/TECH/03/07, APPENDIX-III
144	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-447	Chemical Analysis: (ii) Potassium Nitrate content	IGN/TECH/03/07, APPENDIX-III
145	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-447	Chemical Analysis: (iii) Magnesium content	IGN/TECH/03/07, APPENDIX-III
146	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-447	Volatile Matter	IGN/TECH/03/07, APPENDIX-II

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147	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-466	Chemical Analysis: (i) Potassium perchlorate content	HEMRL/PYRO/PS/298, APPENDIX-C
148	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-466	Chemical Analysis: (ii) Red Lead content	HEMRL/PYRO/PS/298, APPENDIX-C
149	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-466	Chemical Analysis: (iii) Barium chromate content	HEMRL/PYRO/PS/298, APPENDIX-C
150	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-466	Chemical Analysis: (iv) Antimony trisulfide content	HEMRL/PYRO/PS/298, APPENDIX-C
151	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-466	Chemical Analysis: (v) NC Binder (APC-217) content	HEMRL/PYRO/PS/298, APPENDIX-C
152	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-466	Chemical Analysis: (vi) Zirconium content	HEMRL/PYRO/PS/298, APPENDIX-C
153	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-466	Volatile Matter	JSG 0112, METHOD NO. 1(a)
154	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-490	Chemical Analysis: (i) Di-octyl Adipate (ii) Binder: Phenolic resin	HEMRL/PYRO/PS/393, APPENDIX 'B'
155	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-490	Chemical Analysis: (iii) Potassium Nitrate content	HEMRL/PYRO/PS/393, APPENDIX 'B'
156	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-490	Chemical Analysis: (iv) Magnesium content	HEMRL/PYRO/PS/393, APPENDIX 'B'
157	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-490	Chemical Analysis: (v) Red Phosphorus content	HEMRL/PYRO/PS/393, APPENDIX 'B'
158	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-490	Volatile Matter	JSG 0112, METHOD NO. 1(a)
159	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-491	Chemical Analysis: (i) Di-octyl Adipate (ii) Binder: Phenolic resin	HEMRL/PYRO/PS/394, APPENDIX 'B'
160	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-491	Chemical Analysis: (iii) Potassium Nitrate content	HEMRL/PYRO/PS/394, APPENDIX 'B'
161	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-491	Chemical Analysis: (iv) Magnesium content	HEMRL/PYRO/PS/394, APPENDIX 'B'
162	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-491	Chemical Analysis: (v) Red phosphorus content	HEMRL/PYRO/PS/394, APPENDIX 'B'
163	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-491	Volatile Matter	JSG 0112, METHOD NO. 1(a)
164	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-492	Chemical Analysis: (i) Binder (SS Vinishine)	HEMRL/PYRO/PS/395, APPENDIX 'B'

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165	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-492	Chemical Analysis: (ii) Potassium nitrate content	HEMRL/PYRO/PS/395, APPENDIX 'B'
166	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-492	Chemical Analysis: (iii) Red Phosphorus content	HEMRL/PYRO/PS/395, APPENDIX 'B'
167	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition ME-492	Volatile Matter	JSG 0112, METHOD NO. 1(a)
168	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition Primary Mix - Type (A/ B/ C)	Moisture Content	IND/ME/874 (a) (Prov), APPENDIX (A)
169	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition Primary Mix - Type (A/ B/ C)	Ratio analysis (i) Lead azide content (ii) Lead styphnate content	IND/ME/874 (a) (Prov), APPENDIX (B)
170	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition Primary Mix - Type (A/ B/ C)	Ratio analysis (iii) Antimony trisulfide content	IND/ME/874 (a) (Prov), APPENDIX (B)
171	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition Primary Mix - Type (A/ B/ C)	Ratio analysis (iv) Barium nitrate content	IND/ME/874 (a) (Prov), APPENDIX (B)
172	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Composition Primary Mix - Type (A/ B/ C)	Ratio analysis (v) Tetrazene content	IND/ME/874 (a) (Prov), APPENDIX (B)
173	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Cupric Oxide	Chloride (as Cl)	IS 17402, ANNEXURE (A-6.4)
174	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Cupric Oxide	Sulphate (as SO4)	IS 17402, ANNEXURE (A-6.5)
175	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Cupric Oxide	Total Copper	IS 17402, ANNEXURE (A-3)
176	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Cupric Oxide	Volatile Matter	IS 17402, ANNEXURE (A-2)
177	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Delay Composition CU1 (Y1)	Composition: (i) Red Lead content	IND/ME/950 (A) (PROV), APPENDIX 'B'
178	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Delay Composition CU1 (Y1)	Composition: (ii) Lacquer: clear Nitrocellulose (APC-217)	IND/ME/950 (A) (PROV), APPENDIX 'B'
179	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Delay Composition CU1 (Y1)	Composition: (iii) Zirconium	IND/ME/950 (A) (PROV), APPENDIX 'B'
180	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Delay Composition CU1 (Y1)	Volatile Matter	JSG 0112, METHOD NO. 1(a)
181	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Delay Composition CU1 (Y2)	Composition: (i) Red Lead content	IND/ME/950 (A) (PROV), APPENDIX 'B'
182	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Delay Composition CU1 (Y2)	Composition: (ii) Lacquer, clear Nitrocellulose (APC-217)	IND/ME/950 (A) (PROV), APPENDIX 'B'

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183	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Delay Composition CU1 (Y2)	Composition: (iii) Zirconium	IND/ME/950 (A) (PROV), APPENDIX 'B'
184	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Delay Composition CU1 (Y2)	Volatile Matter	JSG 0112, METHOD NO. 1(a)
185	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Diluent C / Equivalent	Colour and Appearance	HEMRL/TRIM/PROP/IM/16
186	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Diluent C / Equivalent	Epoxide Equivalent	HEMRL/TRIM/PROP/IM/16, APPENDIX-IM/16/II
187	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Diluent C / Equivalent	Specific gravity at 25 °C	HEMRL/TRIM/PROP/IM/16, APPENDIX-IM/16/I
188	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Diluent C / Equivalent	Viscosity at 25°C	HEMRL/TRIM/PROP/IM/16, APPENDIX-IM/16.IV
189	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Diluent C / Equivalent	Volatile matter content	HEMRL/TRIM/PROP/IM/16, APPENDIX-IM/16/III`
190	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Dioctyl adipate (DOA)	Acid value	ERDL/TRIM/PROP/RM/5, APPENDIX-RM/5/IV
191	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Dioctyl adipate (DOA)	Appearance	HEMRL/SRP/PJ-10/HTM-LTM /2018/01
192	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Dioctyl adipate (DOA)	Moisture content	HEMRL/SRP/PJ-10/HTM-LTM/2018/01, Enclosure 1
193	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Dioctyl adipate (DOA)	Refractive Index at 20 °C	ERDL/TRIM/PROP/RM/5, APPENDIX-RM/5/V
194	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Dioctyl adipate (DOA)	Refractive index at 30 ºC	ERDL/TRIM/PROP/RM/5, APPENDIX-RM/5/V
195	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Dioctyl adipate (DOA)	Saponification number	ERDL/TRIM/PROP/RM/5, APPENDIX-RM/5/III
196	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Dioctyl adipate (DOA)	Specific Gravity at 20 °C	ERDL/TRIM/PROP/RM/5, APPENDIX-RM/5/I
197	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Dioctyl adipate (DOA)	Specific Gravity at 30 ºC	HEMRL/SRP/PINAKA- MK-II/TOT/2014/01. ANNEXURE-III, 6
198	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Dioctyl adipate (DOA)	Viscosity at 30±1 °C	ERDL/TRIM/PROP/RM/5, APPENDIX-RM/5/II
199	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Dioctyl adipate (DOA)	Volatile Matter	HEMRL/SRP/PINAKA- MK-II/TOT/2014/01, ANNEXURE-III, 8
200	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Dobeckot E4 Resin / Yuvapoxy73 / Equivalent	Colour and Appearance	HEMRL/TRIM/PROP/IM/14

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201	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Dobeckot E4 Resin / Yuvapoxy73 / Equivalent	Epoxide Equivalent	HEMRL/TRIM/PROP/IM/14, APPENDIX-IM/14/III
202	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Dobeckot E4 Resin / Yuvapoxy73 / Equivalent	Specific gravity at 25 ºC	HEMRL/TRIM/PROP/IM/14, APPENDIX-IM/14/I
203	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Dobeckot E4 Resin / Yuvapoxy73 / Equivalent	Viscosity at 25 to 26 ºC	HEMRL/TRIM/PROP/IM/14, APPENDIX-IM/14/II
204	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Dobeckot E4 Resin / Yuvapoxy73 / Equivalent	Volatile matter content	HEMRL/TRIM/PROP/IM/14, APPENDIX-IM/14/IV
205	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ferric Acetylacetonate (FeAA)	Iron (as Fe)	ERDL/TRIM/PROP/RM/9, APPENDIX-RM/9/I
206	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ferric Acetylacetonate (FeAA)	Melting Point	ERDL/TRIM/PROP/RM/9, APPENDIX-RM/9/III
207	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ferric Acetylacetonate (FeAA)	Appearance	HEMRL/SRP/PJ-10/HTM-LTM /2018/01
208	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ferric Acetylacetonate (FeAA)	Volatile matter	ERDL/TRIM/PROP/RM/9, APPENDIX-RM/9/II
209	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ferrosilicon	Moisture content	JSG 0112, METHOD NO. 1(a)
210	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ferrosilicon	Reaction of 2.5 % aqueous extract (a) Acidity to Methyl Orange	JSG 0112, METHOD NO. 5 (a)
211	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ferrosilicon	Reaction of 2.5% Aqueous extract (b) Alkalinity to Methyl Orange (as Na2CO3)	JSG 0112, METHOD NO. 5(a)
212	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ferrosilicon	Sieve 106 µ, retained on 106 µ IS sieve	JSS 6810-130, (Rev 4), APPENDIX-B
213	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ferrosilicon	Sieve size, retained on 63 µ IS sieve	JSS 6810-130, (Rev 4), APPENDIX-B
214	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ferrosilicon	Sieve size, retained on 90 µ IS sieve	JSS 6810-130, (Rev 4), APPENDIX-B
215	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ferrosilicon	Total Silicon (as Si)	JSS 6810-130 (Rev 4), APPENDIX-A
216	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Ferrosilicon	Water soluble matter	JSG 0112, METHOD NO. 3
217	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Gun powder	Chlorides (as KCl)	JSS 1376-05, APPENDIX (C)
218	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Gun powder	Composition analysis : (i) Potassium nitrate content	JSS 1376-05, APPENDIX (Q)

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219	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Gun powder	Composition analysis: (ii) Charcoal content	JSS 1376-05, APPENDIX (Q)
220	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Gun powder	Composition analysis: (iii) Sulphur content	JSS 1376-05, APPENDIX (Q)
221	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Gun powder	Hygroscopicity	JSS 1376-05, APPENDIX (K)
222	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Gun powder	Moisture content	JSS 1376-05, APPENDIX (B)
223	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Gun powder	Sieving	JSS 1376-05, APPENDIX (M)
224	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Gun powder	Sulphates (as K2SO4)	JSS 1376-05, APPENDIX (D)
225	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Hardener EH 411 / Equivalent	Appearance	HEMRL/TRIM/PROP/IM/15
226	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Hardener EH 411 / Equivalent	Viscosity at 25 °C	HEMRL/TRIM/PROP/IM/15, APPENDIX-IM/15/II
227	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Hardener EH 411 / Equivalent	Amine value	HEMRL/TRIM/PROP/IM/15, APPENDIX-IM/15/III
228	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Hardener EH 411 / Equivalent	Specific gravity at 25 °C	ERDL/TRIM/PROP/IM/15, APPENDIX-IM/15/I
229	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Hydroxy Terminated Polybutadiene (HTPB)	Polydispersity	ERDL/TRIM/PROP/RM/4, APPENDIX-RM/4[R]/VIII
230	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Hydroxy Terminated Polybutadiene (HTPB)	Acid value	ERDL/TRIM/PROP/RM/4, APPENDIX-RM/4[R]/II
231	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Hydroxy Terminated Polybutadiene (HTPB)	Appearance	HEMRL/SRP/PINAKA- MK-II/TOT/2014/01, ANNEXURE-II, 1
232	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Hydroxy Terminated Polybutadiene (HTPB)	Hydroxyl value	ERDL/TRIM/PROP/RM/4, APPENDIX-RM/4[R]/I
233	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Hydroxy Terminated Polybutadiene (HTPB)	Intrinsic Viscosity	ERDL/TRIM/PROP/RM/4, APPENDIX-RM/4[R]/IX
234	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Hydroxy Terminated Polybutadiene (HTPB)	Moisture Content	ERDL/TRIM/PROP/RM/4, APPENDIX-RM/4[R]/VI
235	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Hydroxy terminated polybutadiene (HTPB)	Molecular weight, (VPO)	ERDL/TRIM/PROP/RM/4, APPENDIX-RM/4[R]/VII
236	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Hydroxy Terminated Polybutadiene (HTPB)	Specific Gravity at 30 °C	ERDL/TRIM/PROP/RM/4, APPENDIX-RM/4[R]/V
237	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Hydroxy Terminated Polybutadiene (HTPB)	Viscosity at 30 °C	ERDL/TRIM/PROP/RM/4, APPENDIX-RM/4[R]/IV

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238	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Hydroxy Terminated Polybutadiene (HTPB)	Viscosity at 60 °C	ERDL/TRIM/PROP/RM/4, APPENDIX-RM/4[R]/IV
239	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Hydroxy Terminated Polybutadiene (HTPB)	Volatile matter content	ERDL/TRIM/PROP/RM/4, APPENDIX-RM/4[R]/III
240	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Initiatory Composition ASA Mixture	Composition: (i) Lead Azide (Dextrinated) content	IND/ME/349(e), APPENDIX-C
241	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Initiatory Composition ASA Mixture	Composition: (ii) Lead styphnate content	IND/ME/349(e), APPENDIX-C
242	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Initiatory Composition ASA Mixture	Composition: (iii) Aluminium content	IND/ME/349(e), APPENDIX-C
243	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Initiatory Composition ASA Mixture	Moisture content	IND/ME/349(e), APPENDIX 'B'
244	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Iron oxide (Fe2O3)	Acidity (as Sulphuric acid)	ERDL/TRIM/PROP/RM/3, APPENDIX-RM/3/IV
245	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Iron oxide (Fe2O3)	Appearance	HEMRL/SRP/PJ-10/HTM-LTM /2018/01
246	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Iron oxide (Fe2O3)	Average particle size	ERDL/TRIM/PROP/RM/3, APPENDIX-RM/3/VI
247	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Iron oxide (Fe2O3)	Calcination Loss	ERDL/TRIM/PROP/RM/3, APPENDIX-RM/3/II
248	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Iron oxide (Fe2O3)	Iron	ERDL/TRIM/PROP/RM/3, APPENDIX-RM/3/III; ERDL/TRIM/PROP/RM/9, APPENDIX-RM/9/I
249	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Iron oxide (Fe2O3)	Iron (as Fe2O3)	ERDL/TRIM/PROP/RM/3, APPENDIX-RM/3/III
250	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Iron oxide (Fe2O3)	Loss on Ignition	HEMRL/Bi-AP/2019/1
251	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Iron oxide (Fe2O3)	Matter insoluble in 6N HCl	ERDL/TRIM/PROP/RM/3, APPENDIX-RM/3/V
252	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Iron oxide (Fe2O3)	Moisture content	ERDL/TRIM/PROP/RM/3, APPENDIX-RM/3/I
253	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Iron oxide (Fe2O3)	Volatile Matter	HEMRL/SRP/PJ-10/HTM-LTM /2018/01 , Enclosure 6
254	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Isophorone Diisocyanate (IPDI)	Appearance	HEMRL/SRP/PJ-10/HTM-LTM /2018/01
255	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Isophorone Diisocyanate (IPDI)	Assay	HEMRL/SRP/PJ-10/HTM-LTM /2018/01, Enclosure 8

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256	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Isophorone Diisocyanate (IPDI)	Refractive index at 20°C	HEMRL/SRP/PJ-10/HTM-LTM/2018/01 Enclosure 7
257	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Isophorone Diisocyanate (IPDI)	Refractive index at 25°C	HEMRL/SRP/PJ-10/HTM-LTM/2018/01 Enclosure 7
258	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Isophorone Diisocyanate (IPDI)	Specific gravity at 30°C	HEMRL/SRP/PJ-10/HTM-LTM /2018/01, Enclosure 9A
259	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead azide	Bulk density	JSS 1376-09, APPENDIX (G)
260	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead azide	Gritty matter	JSS 1376-09, APPENDIX (D)
261	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead azide	Lead azide content	JSS 1376-09, APPENDIX (B)
262	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead azide	Matter insoluble in HNO3	JSS 1376-09, APPENDIX (D)
263	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead azide	Moisture content	JSS 1376-09, APPENDIX (A)
264	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead azide	pH of water extract	JSS 1376-09, APPENDIX (C)
265	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead Azide	Visual examination	JSS 1376-09, Clause No. 3
266	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead Chromate	Average Particle Size	IS 7602, APPENDIX (A-10)
267	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead Chromate	Bulk Density	IS 7886, APPENDIX (A-6)
268	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead Chromate	Chromate (as PbCrO4)	IS 7602, APPENDIX (A-7)
269	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead Chromate	Fineness (Material retained on 45 µ IS sieve, wet sieving with water)	IS 7602, APPENDIX (A-9)
270	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead Chromate	Matter soluble in water	IS 7602, APPENDIX (A-3)
271	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead Chromate	pH of aqueous solution	IS 7602, APPENDIX (A-11)
272	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead Chromate	Volatile Matter	IS 7602, APPENDIX (A-2)
273	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead Chromate	Water Soluble Chlorides (as Cl)	IS 7602, APPENDIX (A-4)

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274	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead Dinitro Resorcinate	Apparent density	DEF. STAND 13-161, APPENDIX A.13
275	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead Dinitro Resorcinate	pH value of aqueous suspension	DEF. STAND 13-161, APPENDIX A.11
276	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead Dinitro Resorcinate	Solubility in alcohol	JSS 9330-03, APPENDIX (D)
277	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead Dinitro Resorcinate	Solubility in water	JSS 9330-03, APPENDIX (A)
278	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead Dinitro Resorcinate	Total Lead (as Pb)	DEF. STAND 13-161, APPENDIX A.7
279	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead Dinitro Resorcinate	Visual examination	DEF. STAND 13-161
280	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead Dinitro Resorcinate	Volatile matter	DEF. STAND 13-161, APPENDIX A.5
281	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead Ferrocyanide	Iron content	IND/ME/769, APPENDIX (D)
282	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead Ferrocyanide	Lead content	IND/ME/769, APPENDIX (C)
283	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead Ferrocyanide	Matter soluble in water	IND/ME/769, APPENDIX (B)
284	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead Ferrocyanide	Purity (as Lead Ferrocyanide)	IND/ME/769, APPENDIX (E)
285	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead Ferrocyanide	Sieve size, retained on 53 µ (i.e. 300 BSS)	IND/ME/769, APPENDIX (F)
286	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead Ferrocyanide	Volatile matter	IND/ME/769, APPENDIX (A)
287	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead styphanate	Acidity of aqueous extract (as HNO3)	JSS 1375-06, APPENDIX (D)
288	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead styphanate	Bulk density	JSS 1375-06, APPENDIX (J)
289	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead styphanate	Lead content	JSS 1375-06, APPENDIX (C)
290	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead styphanate	Matter insoluble in Ammonium acetate solution (Total)	JSS 1375-06, APPENDIX (E)
291	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead styphanate	Moisture content	JSS 1375-06, APPENDIX (A)
292	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lead Styphnate	Visual examination	JSS 1375-06,

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293	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lecithin	Acetone insoluble matter	ERDL/TRIM/PROP/RM/8, APPENDIX-RM/8/V
294	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lecithin	Acid value	ERDL/TRIM/PROP/RM/8, APPENDIX-RM/8/IV
295	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lecithin	Appearance	ERDL/TRIM/PROP/RM/8
296	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lecithin	Benzene insoluble matter	ERDL/TRIM/PROP/RM/8, APPENDIX-RM/8/III
297	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lecithin	Lecithin content	ERDL/TRIM/PROP/RM/8, APPENDIX-RM/8/VI
298	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lecithin	Moisture content	ERDL/TRIM/PROP/RM/8, APPENDIX-RM/8/I
299	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lecithin	Viscosity 30°C	ERDL/TRIM/PROP/RM/8, APPENDIX-RM/8/II
300	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Lecithin	Viscosity at 25 °C	ERDL/TRIM/PROP/RM/8, APPENDIX-RM/8/II
301	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Magnesium Powder Gr. IV	Apparent Density	IS 2307 : 2004, RA-2016, ANNEX B (Clause 4.3)
302	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Magnesium Powder Gr. IV	Magnesium (as Mg)	DRDL/TSQD/AK/023 Rev2
303	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Magnesium Powder Gr. IV	Moisture	IS 2307 : 2004, RA-2016, ANNEX C
304	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Magnesium Powder Gr. IV	Sieve size	IS 2307 : 2004, RA - 2016, ANNEX A (Clause 4.2)
305	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Magnesium Powder Gr. IV	Sieve size	IS 2307 : 2004, RA - 2016, ANNEX A (Clause 4.2)
306	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Magnesium Powder Gr. IV	Sieve size > 150 µm	IS 2307 : 2004, RA - 2016, ANNEX A (Clause 4.2)
307	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Magnesium Powder Gr. V	Apparent Density	IS 2307 : 2004, RA-2016, ANNEX B (Clause 4.3)
308	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Magnesium Powder Gr. V	Magnesium (as Mg)	DRDL/TSQD/AK/023 Rev2, ANNEXURE II
309	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Magnesium Powder Gr. V	Moisture	IS 2307 : 2004, RA-2016, ANNEX C
310	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Magnesium Powder Gr. V	Sieve size	IS 2307 : 2004, RA-2016, ANNEX A (Clause 4.2)
311	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Magnesium Powder Gr. V	Sieve size	IS 2307 : 2004, RA-2016, ANNEX A (Clause 4.2)

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312	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Mat-O-Bond	Acid value	ERDL/TRIM/PROP/RM/7, APPENDIX-RM/7/II
313	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Mat-O-Bond	Hydroxyl value	ERDL/TRIM/PROP/RM/7, APPENDIX-RM/7/I
314	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Mat-O-Bond	Moisture content	ERDL/TRIM/PROP/RM/7, APPENDIX-RM/7/IV
315	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Mat-O-Bond	Volatile matter content	ERDL/TRIM/PROP/RM/7, APPENDIX-RM/7/III
316	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Methanol	Acidity (as acetic acid)	IS : 517 - 1986, RA-2008, APPENDIX B
317	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Methanol	Alkalinity (as NH3)	IS : 517 - 1986, RA-2008, APPENDIX B
318	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Methanol	Moisture content	IS : 517 - 1986, RA-2008
319	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Methanol	Specific gravity at 27, (°C)	IS : 517 - 1986, RA - 2008, 6 of IS : 82-1973
320	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Methyl Aziridinyl Phosphine Oxide (MAPO)	Methanol Insoluble	ERDL/TRIM/PROP/RM/13, APPENDIX-RM/13/V
321	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Methyl Aziridinyl Phosphine Oxide (MAPO)	Moisture Content	ERDL/TRIM/PROP/RM/13, APPENDIX-RM/13/IV
322	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Methyl Aziridinyl Phosphine Oxide (MAPO)	Reactive Imine	ERDL/TRIM/PROP/RM/13, APPENDIX-RM/13/III
323	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Methyl Aziridinyl Phosphine Oxide (MAPO)	Refractive Index at 25 °C	ERDL/TRIM/PROP/RM/13, APPENDIX-RM/13/I
324	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Methyl Aziridinyl Phosphine Oxide (MAPO)	Specific gravity at 25 °C	ERDL/TRIM/PROP/RM/13, APPENDIX-RM/13/II
325	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Methylene chloride / Dichloromethane (DCM)	Boiling point	HEMRL/SRP/PJ-10/HTM-LTM/2018/01
326	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Methylene chloride / Dichloromethane (DCM)	Grade	HEMRL/SRP/PINAKA MKII/ TOT/2014/01
327	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Methylene chloride / Dichloromethane (DCM)	Moisture (KF)	HEMRL/SRP/PINAKA MKII/ TOT/2014/01 ANNEXURE-III;
328	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Methylene chloride / Dichloromethane (DCM)	Specific gravity at 20°C	HEMRL/SRP/PJ-10/HTM-LTM/2018/01 Enclosure 9A
329	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Naphthalene	Crystallizing point	IS : 539 - 1974 Reaff-2011, APPENDIX A
330	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Penta Erythritol Tetranitrate	Acetone Insoluble Matter: (i) Total	JSS 1376-06, APPENDIX (D)

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331	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Penta Erythritol Tetranitrate	Acetone Insoluble Matter: (iii) Gritty particle retained on 125 µ IS sieve	JSS 1376-06, APPENDIX (D)
332	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Penta Erythritol Tetranitrate	Acetone Insoluble Matter: (ii) Inorganic matter	JSS 1376-06, APPENDIX (D)
333	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Penta Erythritol Tetranitrate	Matter passing through: (i) 150 µ IS sieve	JSS 1376-06, APPENDIX (H)
334	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Penta Erythritol Tetranitrate	Matter passing through: (ii) 300 µ IS sieve	JSS 1376-06, APPENDIX (H)
335	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Penta Erythritol Tetranitrate	Melting point	JSS 1376-06, APPENDIX (C)
336	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Penta Erythritol Tetranitrate	Melting point	JSS 1376-06, APPENDIX (C)
337	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Penta Erythritol Tetranitrate	Nitrogen content	JSS 1376-06, APPENDIX (G)
338	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Penta Erythritol Tetranitrate	pH of water extract	JSG 0112, METHOD NO. 5(b)
339	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Penta Erythritol Tetranitrate	Visual Examination	JSS 1376-06, Clause 3
340	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Penta Erythritol Tetranitrate	Volatile Matter	JSS 1376-06, APPENDIX (B)
341	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Penta Erythritol Tetranitrate	Volatile Matter	JSS 1376-06, APPENDIX (B)
342	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Phenolic Resin	Colour & Appearance	HEMRL/PYRO/RESIN/04
343	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Phenolic Resin	Hexa content	HEMRL/PYRO/RESIN/04, APPENDIX-A
344	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Phenolic Resin	Melting Point	JSS 1376-06, (Rev 4), APPENDIX-C
345	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Phenolic Resin	Solubility in Methyl Ethyl Ketone	HEMRL/PYRO/RESIN/04, APPENDIX-B
346	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Phenyl ß Naphthyl amine (NONOX-D)	Appearance	HEMRL/SRP/PJ-10/HTM-LTM /2018/01
347	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Phenyl ß Naphthyl amine (NONOX-D)	Melting point	HEMRL/SRP/PJ-10/HTM-LTM /2018/01 , Enclosure 1
348	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Phenyl ß Naphthyl amine (NONOX-D)	Moisture content	HEMRL/SRP/PJ-10/HTM-LTM /2018/01 , Enclosure 1

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349	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Nitrate	Chloride (as KCl)	IS 301, APPENDIX (B-9)
350	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Nitrate	Hygroscopicity	IS 301, APPENDIX (B-2)
351	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Nitrate	Matter insoluble in water	IS 301, APPENDIX (B-3)
352	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Nitrate	Moisture and Volatile content	IS 301, APPENDIX (A)
353	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Nitrate	Potassium Nitrate (as KNO3)	IS 9157, APPENDIX (A-12)
354	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Nitrate	Sulphate (as K2SO4)	IS 301, APPENDIX (B-12)
355	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Perchlorate	Chlorides (as Cl)	IS 13524, APPENDIX (A-5)
356	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Perchlorate	Matter Insoluble in water	IS 13524, APPENDIX (A-4)
357	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Perchlorate	Moisture content	IS 13524, APPENDIX (A-3)
358	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Perchlorate	pH of aqueous extract	IS 13524, APPENDIX (A-9)
359	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Perchlorate	Potassium Perchlorate content	IS 13524, APPENDIX (A-2)
360	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Perchlorate	Sieve size, retained on 125 µ IS sieve (i.e.120 BSS)	IS 13524, APPENDIX (A-10)
361	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Perchlorate	Sieve size, retained on 90 µ IS sieve (i.e. 170 BSS)	IS 13524, APPENDIX (A-10)
362	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Perchlorate	Sulphates (as SO4)	IS 13524, APPENDIX (A-6)
363	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Picrate	Moisture	MIL-P-10830 (ORD), METHOD NO. 4.4
364	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Picrate	pH of water extract	MIL-P-10830 (ORD), METHOD NO. 4.8
365	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Picrate	Purity (as Potassium picrate)	MIL-P-10830 (ORD), METHOD NO. 4.9.2
366	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Potassium Picrate	Water insoluble matter	MIL-P-10830 (ORD), METHOD NO. 4.5
367	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Pyro Igniters	Actuation time test	CQA(A) DOC No.: TSS4/04/AT/SUP/PAR

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368	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Pyro Igniters	Electrical Resistance test	CQA(A) DOC No.:TSS4/04/AT/SUP/PAR
369	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Pyro Igniters	Functioning test (Igniter should be kept at 0 to -70 degree celsius for 0 - 48 hours. Igniters should get actuated without failure, when current of 0 - 10 amp is applied and a pressure of 180 - 390 Kg f/cm2 to be generated in volume of 1 cm3.)	CQA(A) DOC No.: TSS4/04/AT/SUP/PAR
370	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Pyro Igniters	Functioning test (Igniter should be kept at 0 to +70 degree celsius for 0 to 48 hours. Igniters should get actuated without failure, when current of 0 - 10 amp is applied and a pressure of 180 - 390 Kg f/cm2 to be generated in volume of 1 cm3.)	CQA(A) DOC No.: TSS4/04/AT/SUP/PAR
371	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Pyro Igniters	Immunity to static charge (Electric igniter should not actuate during the discharging of the capacitor 0 - 500 Pico farad charged up to a 100 KV. (a) Between the shorted wires & body. (b) Between shorted wires through a resistance of 0 - 50 Kilo ohm which is connected to the article in series.)	CQA(A) DOC No. : TSS4/04/AT/SUP/PAR
372	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Pyro Igniters	Insulation Resistance (When direct current of 0 - 1000 V is applied between lead wires & body for 1 min., then insulation resistance should not be less than 1000 mega ohms.)	CQA(A) DOC No.:TSS4/04/AT/SUP/PAR
373	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Pyro Igniters	Insulation Strength/Breakdown voltage test (When a 0 - 1000 volts AC with frequency 50 Hz & circuit current of 0 - 100 mA is applied between shorted lead and the body for period of one minute, the igniter should sustain without any insulation breaks and surface overlapping.)	CQA(A) DOC No.:TSS4/04/AT/SUP/PAR

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374	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Pyro Igniters	Jolting followed by resistance (Electrical igniter should withstand without activation and design damages to the effect of Jolting. Place the igniter inside the fixture in three different positions. (i) Wires placing to the bottom. (ii) Wires placing to the top. (iii) Wires inside position. Duration: 0 - 10 hrs. Height of drop: 0 - 10 mtr No. of falls: 0 - 250 per minutes.)	CQA(A) DOC No.:TSS4/04/AT/SUP/PAR
375	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Pyro Igniters	Length	CQA(A) DOC No.:TSS4/04/AT/SUP/PAR
376	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Pyro Igniters	Outer Diameter	CQA(A) DOC No.:TSS4/04/AT/SUP/PAR
377	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Pyro Igniters	Safe flow current (Igniter should not get actuated if a direct current of 0 - 1000 mA is transmitted for a period of 0 - 15 min.)	CQA(A) DOC No.: TSS4/04/AT/SUP/PAR
378	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Pyro Igniters	Vibration test (Longitudinal load / Transverse load). (Electrical Ignitor should withstand without actuation and design damages. Place the igniters in the fixture (1) Placing the wires to the top position. (2) Place the wires to the side position. And apply the conditions Frequency : 0 - 2000 Hz Acceleration : 0 - 30 g Duration : 0 - 10 hrs along axis)	CQA(A) DOC No.: TSS4/04/AT/SUP/PAR
379	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Pyro Igniters	Visual checks (Igniter should comply with the appearance, marking and dimensions as per DRG given by vendor.)	CQA(A) DOC No. : TSS4/04/AT/SUP/PAR
380	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Pyro Igniters	Water immersion test. (Igniter should be kept at underwater 0 - 5 m depth for 0 - 10 hrs.)	CQA(A) DOC No.: TSS4/04/AT/SUP/PAR
381	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Pyro Igniters	Wire length	CQA(A) DOC No.:TSS4/04/AT/SUP/PAR

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382	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Pyrogallol	Assay	ERDL/TRIM/PROP/RM/10, APPENDIX-RM/10/I
383	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Pyrogallol	Melting point	ERDL/TRIM/PROP/RM/10, APPENDIX-RM/10/II
384	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Red Lead	Assay (as Pb_3O_4)	IS 8063, APPENDIX (A-6)
385	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Red Lead	Average Particle size	IS 8063, APPENDIX (A-5)
386	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Red Lead	Bulk Density	IS 7886, APPENDIX (A-6)
387	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Red Lead	Fineness (Material retained on 45 µ IS sieve)	IS 8063, APPENDIX (A-4)
388	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Red Lead	Volatile Matter	IS 8063, APPENDIX (A-2)
389	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Red Phosphorus	Acidity (as H_2SO_4)	HEMRL/PYRO/FS&D/PS/RP/5, APPENDIX-C
390	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Red Phosphorus	Appearance	HEMRL/PYRO/FS&D/PS/RP/5
391	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Red Phosphorus	Moisture	HEMRL/PYRO/FS&D/PS/RP/5, APPENDIX-D
392	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Red Phosphorus	Particle size (Sieve test) Passing through 63 µ IS test sieve	HEMRL/PYRO/FS&D/PS/RP/5, APPENDIX-F
393	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Red Phosphorus	Phosphorus (Yellow)	HEMRL/PYRO/FS&D/PS/RP/5, APPENDIX-B
394	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Red Phosphorus	Stabilizer (as MgO) content	HEMRL/PYRO/FS&D/PS/RP/5, APPENDIX-G
395	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Red Phosphorus	Total Red Phosphorus content	HEMRL/PYRO/FS&D/PS/RP/5, APPENDIX-A
396	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Silicon Powder	Average Particle size	IS 7886, APPENDIX (A-8)
397	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Silicon Powder	Bulk Density	IS 7886, APPENDIX (A-6)
398	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Silicon Powder	Iron compound (as Fe)	JSS 9630-01, APPENDIX (C)
399	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Silicon Powder	Matter soluble in water	JSG 0112, METHOD NO. 3

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400	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Silicon Powder	pH of water extract	JSG 0112, METHOD NO. 5(b)
401	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Silicon Powder	Sieve size, retained on 63 µ IS sieve	JSG 0112, METHOD NO. 18
402	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Silicon Powder	Sieve size, retained on 90 µ IS sieve	JSG 0112, METHOD NO. 18
403	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Silicon Powder	Volatile matter	IS 7886, APPENDIX (A-2)
404	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Sodium Nitrate	Moisture & Volatile matter content	IS 12681 : 2016, ANNEX A (Clause 2.2), A-3
405	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Sodium Nitrate	Purity	IS 12681 : 1989, RA-2016, ANNEX A (Clause 2.2), A-2
406	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Sulfur	Acidity (as H2SO4)	IS 6655, METHOD NO. 3.4
407	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Sulfur	Ash content	IS 6655, METHOD NO. 3.3
408	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Sulfur	Assay (as S)	IS 6655, METHOD NO. 3.1.1
409	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Sulfur	Moisture	IS 6655, METHOD NO. 3.2
410	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Tartaric acid	Ash	ERDL/TRIM/PROP/RM/12, APPENDIX-RM/12/IV
411	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Tartaric acid	Loss on drying	ERDL/TRIM/PROP/RM/12, APPENDIX-RM/12/II
412	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Tartaric acid	Melting point	ERDL/TRIM/PROP/RM/12, APPENDIX-RM/12/I
413	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Tartaric acid	Tartaric acid content	ERDL/TRIM/PROP/RM/12, APPENDIX-RM/12/III
414	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Tetrazene	Chlorides (as NaCl)	JSS 1376-08, APPENDIX (C)
415	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Tetrazene	Gritty matter	JSS 1376-08, APPENDIX (F)
416	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Tetrazene	Moisture content	JSS 1376-08, APPENDIX (A)
417	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Tetrazene	pH of water extract	JSS 1376-08, APPENDIX (E)
418	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Tetrazene	Settling test	JSS 1376-08, APPENDIX (J)

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419	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Tetrazene	Sulphate (as Na2SO4)	JSS 1376-08, APPENDIX (D)
420	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Tetrazene	Total insoluble matter in water	JSS 1376-08, APPENDIX (F)
421	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Tetrazene	Visual examination	JSS 1376-08
422	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Toluene diisocyanate (TDI)	Appearance	HEMRL/SRP/PJ-10/HTM-LTM /2018/01
423	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Toluene diisocyanate (TDI)	Assay	ERDL/TRIM/PROP/RM/6, APPENDIX-RM/6/I
424	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Toluene diisocyanate (TDI)	Hydrolysable chlorine	ERDL/TRIM/PROP/RM/6, APPENDIX-II
425	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Toluene diisocyanate (TDI)	Refractive index at 25 °C	ERDL/TRIM/PROP/RM/6, APPENDIX-RM/6/IV
426	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Toluene diisocyanate (TDI)	Refractive index at 30°C	HEMRL/SRP/PJ-10/HTM-LTM /2018/01, Enclosure 7
427	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Toluene diisocyanate (TDI)	Specific gravity at 25 °C	ERDL/TRIM/PROP/RM/6, APPENDIX-RM/6/III
428	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Trimethylol Propane	Acid Value	HEMRL/SRP/PINAKA-MK-II/TOT/2014/01, ANNEXURE-III
429	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Trimethylol Propane	Appearance	HEMRL/SRP/PINAKA-MK-II/TOT/2014/01
430	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Trimethylol Propane	Hydroxyl Value	HEMRL/AK/BST/PROP/RM/1, APPENDIX-I
431	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Trimethylol Propane	Moisture Content	HEMRL/AK/BST/PROP/RM/1, APPENDIX-II
432	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Zirconium	Apparent Density	IS 12437, APPENDIX (A-6)
433	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Zirconium	Assay	IS 12437, APPENDIX (A-2)
434	CHEMICAL- EXPLOSIVES & PYROTECHNICS	Zirconium	Volatile Matter	IS 12437, APPENDIX (A-3)
435	CHEMICAL- LAC AND LAC PRODUCTS	Ammunition Protective Compositions (Adhesives, Varnishes, and Lacquers) (Shellac based)	Adhesion & Finish	JSS 8010-63, APPENDIX (D)
436	CHEMICAL- LAC AND LAC PRODUCTS	Ammunition Protective Compositions (Adhesives, Varnishes, and Lacquers) (Shellac based)	Ash content	JSS 8010-63, APPENDIX (B)
437	CHEMICAL- LAC AND LAC PRODUCTS	Ammunition Protective Compositions (Adhesives, Varnishes, and Lacquers) (Shellac based)	Iodine value	JSS 8010-63, APPENDIX (C)

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438	CHEMICAL- LAC AND LAC PRODUCTS	Ammunition Protective Compositions (Adhesives, Varnishes, and Lacquers) (Shellac based)	Shellac conformity test	JSS 8010-63, APPENDIX (E)
439	CHEMICAL- LAC AND LAC PRODUCTS	Ammunition Protective Compositions (Adhesives, Varnishes, and Lacquers) (Shellac based)	Total non volatile matter	JSS 8010-63, APPENDIX (A)
440	CHEMICAL- LAC AND LAC PRODUCTS	Lacquer, Nitrocellulose, Adhesive orange & red (APC-219)	Drying time: Hard Dry	IS 101 (PART3/ SEC 1)
441	CHEMICAL- LAC AND LAC PRODUCTS	Lacquer, Nitrocellulose, Adhesive orange & red (APC-219)	Finish	IS 101 (PART 3/ SEC 4)
442	CHEMICAL- LAC AND LAC PRODUCTS	Lacquer, Nitrocellulose, Adhesive orange & red (APC-219)	pH	JSS 8010-48,APPENDIX (E)
443	CHEMICAL- LAC AND LAC PRODUCTS	Lacquer, Nitrocellulose, Adhesive orange & red (APC-219)	Total Solid	JSS 8010-48, APPENDIX (A)
444	CHEMICAL- LAC AND LAC PRODUCTS	Lacquer, Nitrocellulose, Adhesive orange & red (APC-219)	Viscosity at 25 °C	BROOKFIELD DIGITAL VISCOMETER METHOD MANUAL NO. M07-022-C0711
445	CHEMICAL- LAC AND LAC PRODUCTS	Lacquer: Clear Nitrocellulose (APC-217)	Finish	IS 101 (PART 3 / SEC 4)
446	CHEMICAL- LAC AND LAC PRODUCTS	Lacquer: Clear Nitrocellulose (APC-217)	Hard dry	IS 101 (PART 3/SEC 1)
447	CHEMICAL- LAC AND LAC PRODUCTS	Lacquer: Clear Nitrocellulose (APC-217)	Kinematic viscosity	BROOKFIELD DIGITAL VISCOMETER METHOD MANUAL NO. M07-022-C0711
448	CHEMICAL- LAC AND LAC PRODUCTS	Lacquer: Clear Nitrocellulose (APC-217)	Kinematic viscosity	JSS 8010-42, APPENDIX (D)
449	CHEMICAL- LAC AND LAC PRODUCTS	Lacquer: Clear Nitrocellulose (APC-217)	pH of Water extract	JSG 0112, METHOD NO. 5(b)
450	CHEMICAL- LAC AND LAC PRODUCTS	Lacquer: Clear Nitrocellulose (APC-217)	Surface dry	IS 101 (PART 3/ SEC.1)
451	MECHANICAL- PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	'n' Value, (By strand burner)	DRDL/TSQD/AK/022Rev2 (APPENDIX A (Vii))
452	MECHANICAL- PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	Burn rate at 10 to 150 kg/cm2 on strand	DRDL/TSQD/AK/022 Rev 2, APPENDIX A/II/vii-(PAGE NO.55)
453	MECHANICAL- PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	Burn rate at 10 to 150 kg/cm2 on strand	HEMRL/PINAKA/PORP/1, ANNEXURE - III E/e-(PAGE NO 420)

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454	MECHANICAL-PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	Burn rate at 10 to 150 kg/cm2 on strand	HEMRL/SRP/PINAKA-MK-II/TOT/2014/01, ANNEXURE-III, 13- (PAGE NO 94)
455	MECHANICAL-PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	Burn rate at 10 to 150 kg/cm2 on strand	RT/RRM/PRO
456	MECHANICAL-PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	Burn rate at 20 to 130 kg/cm2 on BEM (Ballistic Evaluation Motor)	DRDL/TSQD/AK/022Rev2, APPENDIX A (Vii)
457	MECHANICAL-PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	Burn rate at 20 to 130 kg/cm2 on BEM (Ballistic Evaluation Motor)	HEMRL/PINAKA/PORP/1, Annexure - III E
458	MECHANICAL-PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	Burn rate at 20 to 130 kg/cm2 on BEM (Ballistic Evaluation Motor)	HEMRL/SRP/PINAKA-MK-II/TOT/2014/01 ANNEXURE-III, 16
459	MECHANICAL-PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	Calorimetric value	DRDL/TSQD/AK/022 Rev 2, APPENDIX A/II (ii)
460	MECHANICAL-PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	Calorimetric value	HEMRL/PINAKA/PORP/1, ANNEXURE - IIIB
461	MECHANICAL-PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	Compression	DRDL/TSQD/AK/022 Rev2, APPENDIX A (iV)
462	MECHANICAL-PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	Compressive strength	DRDL/TSQD/AK/022 Rev2, APPENDIX A (iV)
463	MECHANICAL-PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	Density	DRDL/TSQD/AK/022 Rev 2, APPENDIX A/II - (i)
464	MECHANICAL-PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	Density	HEMRL/PINAKA/PORP/1, ANNEXURE - III

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465	MECHANICAL-PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	Density	HEMRL/SPR/PINAKA MK-II/TOT/2014/01, ANNEXURE-III - (12)
466	MECHANICAL-PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	Density	RT/RRM/PRO
467	MECHANICAL-PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	Elongation	DRDL/TSQD/AK/022 Rev 2, APPENDIX A/II (iii)
468	MECHANICAL-PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	Elongation	HEMRL/PINAKA/PORP/1, ANNEXURE - III C- (4)
469	MECHANICAL-PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	Elongation	HEMRL/SRP/PINAKA-MK-II/TOT/2014/01, ANNEXURE-III, (14)
470	MECHANICAL-PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	Elongation	RT/RRM/PRO
471	MECHANICAL-PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	'n' Value (By strand burner)	HEMRL/SRP/PINAKA-MK-II/TOT/2014/01 ANNEXURE-III, 13
472	MECHANICAL-PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	Tensile	DRDL/TSQD/AK/022 Rev 2, APPENDIX A/II (iii)
473	MECHANICAL-PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	Tensile	HEMRL/PINAKA/PORP/1, ANNEXURE - III C/FIG-1
474	MECHANICAL-PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	Tensile	HEMRL/SRP/PINAKA-MK-II/TOT/2014/01, ANNEXURE-III, 14
475	MECHANICAL-PROPERTIES OF POWDER METALLURGICAL PRODUCTS	Composite Propellant	Tensile	RT/RRM/PRO