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Location 2: Initiatory Composition at CQA (ME) Cell at AFK, Khadki, Pune,

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SI.	Product / Material	Specific Test Performed	Test Method Specification	Range of Testing /
	of Test		against which tests are	Limits of Detection
			performed	

## **CHEMICAL TESTING**

Loc	ation 1			
I.	TEXTILE (WOVEN &	NON WOVEN)		
1.	Cloth cambric bleached or dyed and cloth calico bleached	pH value Water soluble chloride as NaCl % by mass Water extractable matter % by mass Ash Content %	IS 1390-1983 (RA 2009) IS 5088-1982, AMD-2 (RA 2007)/Appendix B IS 3456-1966 (RA 2010) IS 199-1989 (RA 2010)	3 to 11 0.01% to 0.8% 0.25% to 5% 0.1% to 10%
II.	PAINTS & SURFAC	E COATING		
1.	R/M , A/D , paints for general purpose all colours	Viscosity, Seconds Water content %	IS 101-Part 1 sec-5-1989 (RA 2014) IS 101-Part 2 sec-1-1988 (RA 2014)	20 Sec to 300 Sec 0.2% to 7%
		Flash Point <sup>v</sup> C	IS 101-Part I sec-6-1987 (RA 2014)	5°C to 80 °C
		Mass per 10 ltr. in kg	IS 101-Part-1-sec-7-1987 (RA 2014)	8 kg to 20 kg
2.	Paint R/M priming Red Oxide Zinc	Viscosity, seconds	IS 101-Part 1 sec-5-1989 (RA 2014)	20 Sec to 300 Sec
	chrome Ammn. A/D, M/F	Water content %	IS 101-Part 2 sec-1-1988 (RA 2014)	0.2% to 7%
	·	Flash Point <sup>0</sup> C	IS 101-Part 1-sec-6-1987 (RA 2014)	5°C to 80 °C

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		Mass per 10 ltr. in kg	IS 101-Part 1-sec-7-1987 (RA 2014)	8 kg to 20 kg
III.	PLASTIC & RESINS			
1.	HDPE	Ash content %	JSG 0112:2015, Rev. No. 2 Method No. 2(A)	0.01 to 0.05
		pH	JSG 0112:2015, Rev. No. 2 Method No. 5(B)	2 to 12
		Chloride as NaCl %	JSG 0112:2015, Rev. No. 2 Method No. 7(B)	0.01% to 0.08%
		Sulphates as Na₂SO₄ %	JSG 0112:2015, Rev. No. 2 Method No. 8	0.01% to 1%
2.	LDPE	Ash content %	JSG 0112:2015, Rev. No. 2 Method No. 2(A)	0.01 to 0.05
		pН	JSG 0112:2015, Rev. No. 2 Method No. 5(B)	2 to 12
		Chloride as NaCl %	JSG 0112:2015, Rev. No. 2 Method No. 7(B)	0.01% to 0.08%
		Sulphates as Na₂SO₄ %	JSG 0112:2015, Rev. No. 2 Method No. 8	0.01% to 1%
3.	LLDPE	Ash content %	JSG 0112:2015, Rev. No. 2 Method No. 2(A)	0.01 to 0.5

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		pН	JSG 0112:2015, Rev. No. 2	2 to 12
		Chloride as NaCl %	Method No. 5(B)  JSG 0112:2015,  Rev. No. 2  Method No. 7(B)	0.01% to 0.08%
		Sulphates as Na₂SO₄ %	JSG 0112:2015, Rev. No. 2 Method No. 8	0.01% to 1%
4.	ABS	Ash content %	JSG 0112:2015, Rev. No. 2 Method No. 2(A)	0.01% to 10%
		Chloride as NaCl %	JSG 0112:2015, Rev. No. 2 Method No. 7(B)	0.01% to 0.08%
		Sulphates as Na₂SO₄ %	JSG 0112:2015, Rev. No. 2 Method No. 8	0.01% to 1%
	†	Vicat softening point, °C	ASTM-D-1525-2000	75 °C to 250°C
5.	Phenolic Moulding Powder Glass filled	Free Ammonia content %	IS 867-1963 Clause 16 (RA 2008)	0.01% to 0.05%
6.	Moulding powder Moulded Plastic Phenolic	pН	JSG 0112:2015, Rev. No. 2 Method No. 5(B)	2 to 12
		Chloride as NaCl %	JSG 0112:2015, Rev. No. 2 Method No. 7(B)	0.01% to 0.08%
		Sulphates as Na₂SO₄ %	JSG 0112:2015, Rev. No. 2 Method No. 8	0.01% to 1%

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
7.	Nylon-6	Melting Point °C	BS:2782: Method 103C	75 °C to 290°C
8.	Nylon-66	Melting Point °C	BS:2782: Method 103C	75 °C to 290°C
9.	Polycarbonate	Melting Point °C	ARDE/Specn/535 1997	75 °C to 290°C
IV.	EXPLOSIVES & PY	ROTECHNICS		
1.	Ammunition Protective Compositions	Total Non-volatile matter % by Mass	JSS-8010-63:2016 (Rev.No.4)/ Appendix A	5.5% to 62%
		Ash % by Mass	JSS-8010-63:2016 (Rev.No.4)/ Appendix B	0.05% to 0.6%
		lodine Value	JSS-8010-63:2016 (Rev.No.4)/ Appendix C	0.1 to 30
		Adhesion & Finish	JSS-8010-63:2016 (Rev.No.4)/ Appendix D	Qualitative
2.	Aluminium Powder Heavy Grade-1	Matter soluble in ether % by Mass	JSS-1370-03-2014 (Rev.No.3)/ Appendix A	0.3% to 10%
		Volatile matter at 105	JSG-0112-2015-1(a) (Rev. No.2) Method 1A	0.01% to 10%
		Gritty Matter % by Mass	JSG-0112-2015-1(a) (Rev. No.2) Method 6	0.01% to 10%
		Silicon and compounds of Silicon (other than grit) calculated as Silicon % by Mass	JSS-1370-03- 2014(Rev.No.3)/ Appendix-B	0.01% to 10%

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		pH of water extract	JSG-0112-2015 (Rev. No.2) Method 5(b)	2 to 12
		Copper and compounds of copper calculated as metallic copper % by Mass	JSS-1370-03-2014(Rev.3)/ Appendix-C	0.01% to 10%
		Iron & compounds of Iron calculated as Metallic Iron % by Mass	JSS-1370-03-2014(Rev.3)/ Appendix-D	0.01% to 10%
		Zinc & compounds of Zinc calculated as Metallic Zinc % by Mass	JSS-1370-03-2014(Rev.3)/ Appendix-E	0.01% to 10%
		Magnesium & compounds of Magnesium calculated as Metallic Magnesium % by Mass	JSS-1370-03-2014(Rev.3)/ Appendix-F	0.01% to 10%
		Metallic impurities other than Aluminium % by Mass	JSS-1370-03-2014(Rev.3)/ Appendix-G	0.01% to 10%
		Free Metallic Aluminium % by Mass	JSS-1370-03-2014(Rev.3)/ Appendix-H	1% to 100%
		Apparent Density g/cm <sup>3</sup>	JSS-1370-03-03-2014 (Rev.3)/ Appendix-J	0.5 g/cm <sup>3</sup> to 2 g/cm <sup>3</sup>
3.	Single Base Propellants	Calorimetric value	JSG-0116:1996 Method No. 401	500 Cal/g to 1500 Cal/g
		Diphenylamine	JSG-0116:1996 Method No. 208/210/211	0.1% to 3.0%
		Total V.M	JSG-0116:1996 Method No.105 /106	0.15% to 5.0%

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Abels Heat test	JSG-0116:1996	1 min to 30min
			Method No. 501	
		Methyl violet test	JSG-0116:1996	10 min to 100 min
			Method No. 502	
		Bergman & Junk test	JSG-0116:1996	0.5 ml of NO/ 5 g to
			Method No.503	20 ml of NO/ 5 g
		Dutch Test	JSG-0116:1996	0.1% to 3.5%
			Method No.504	
4.	Double Base	Calorimetric value	JSG-0116:1996	500 Cal/g to 1500 Cal/g
	Propellants		Method No. 401	
		Carbamite	JSG-0116:1996	0.1% to 10.0%
			Method No. 209 / 210 / 211	
		Volatile matter	JSG-0116:1996	0.1% to 5.0%
			Method No. 104/105 /106	
		Abels Heat test	JSG-0116:1996	1 min to 30min
			Method No. 501	
		Methyl violet test	JSG-0116:1996	10 min to 100min
			Method No.502	
		Bergman & Junk test	JSG-0116:1996	0.5 ml of NO / 5 gm to
			Method No. 503	20 ml of NO / 5 gm
		Dutch Test	JSG-0116:1996	0.1% to 3.5%
			Method No. 504	
5.	Triple Base	Calorimetric value	JSG-0116:1996	500 Cal/g to 1500 Cal/g
	Propellants		Method No. 401	
		Carbamite	JSG-0116:1996	0.1% to 10.0%
			Method No. 209 / 210 / 211	
		Volatile matter	JSG-0116:1996	0.1% to 5.0%
			Method No. 104/105 /106	
		Abels Heat test	JSG-0116:1996	1 min to 30min
			Method No. 501	

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Methyl violet test	JSG-0116:1996 Method No.502	10 min to 100min
		Bergman & Junk test	JSG-0116:1996 Method No. 503	0.5 ml of NO / 5 gm to 20 ml of NO / 5 gm
		Dutch Test	JSG-0116:1996 Method No. 504	0.1% to 3.5%
6.	CE crystalline	Volatile matter	JSS-1375-01:2016(Rev3)/ Appendix -A	0 to 0.5%
		Melting point	JSS-1375-01:2016(Rev3)/ Appendix -E	120°C to 130 °C
		Vacuum stability test	JSS-1375-01:2016(Rev3)/ Appendix -G	1.0 to 19 ml at 120 deg C 40 hrs, ml / 5g
7.	CE Granulated	Vacuum stability test	JSS 1375-01: 2016(Rev.3)/ Appendix - G	1.00 to 19 ml at 120 deg.C 40 hrs, ml / 5g
8.	TNT	Setting Point	JSS-1376-02-2012 (Rev. 4)/ Appendix - A	76 <sup>0</sup> C to 85 <sup>0</sup> C
		Acidity as H <sub>2</sub> SO <sub>4</sub>	JSS-1376-02-2012 (Rev. 4)/ Appendix - B	0.01% to 0.1 %
		Moisture Content	IS 2362-63 (RA 2005)	0.01% to 0.1%
		Vacuum stability test	JSS-1376-02-2012	1.0 to 19 ml at 120
			(Rev. 4)/ Appendix - H	deg.C 16 hrs, ml / 5g
9.	RDX	Melting Point	JSS 1376-01:2015 (Rev 7)/ Appendix -'C'	200°C to 208°C
10.	Gun Powder	Pot. Nitrate	JSS-1376-05-2014 (Rev.3)/ Appendix 'P'	60% to 80%
<b>-</b>		Charcoal	JSS-1376-05-2014 (Rev.3)/ Appendix 'P'	10% to 20%
		Sulphur	JSS-1376-05-2014 (Rev.3)/ Appendix 'P'	5% to 15%

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Moisture	JSS-1376-05-2014 (Rev.3)/ Appendix 'B'	0.5% to 2.0%
		Mass of residue on flashing	JSS-1376-05-2014 (Rev.3)/ Appendix 'H'	5% to 10 %

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SI.	Product / Material	Specific Test Performed	Test Method Specification	Range of Testing /
	of Test		against which tests are	Limits of Detection
			performed	

## **CHEMICAL TESTING**

Loc	ation 2			
I.	EXPLOSIVES & PY	ROTECHNICS		
1.	A1 Composition	Mercury Fulminate	IND/ME/348(b) Appendix - C DC NO 5142 - ME, 08.06.2013	% by mass 35.5 to 39.5
2.	L- Mix	Lead 2:4 di-nitro Resorcinol i.e. RD-1337	IND/ME/1019 / Appendix-B DC NO 5181 - ME, 20.01.2014	% by mass 47.5 to 52.5
		Tetrazene	IND/ME/1019/Appendix-B	4.5 to 5.5
3.	C-ZECH	Lead Styphnate	IND/ME/766(b)/ Appendix - C DC NO 5139 - ME,08.06.2013	% by mass 57.5 to 62.5
		Tetrazene	IND/ME/766(b)/ Appendix-C	1.5 to 2.5
4.	FA 956	Lead Styphnate	IND/ME/960(a)/ Appendix - C DC NO 5143 - ME, 08.06.2013	% by mass 32.0 to 42.0
		Tetrazene	IND/ME/960(a)/ Appendix - C	3.0 to 5.0
		PETN	IND/ME/960(a)/ Appendix - C	4.0 to 6.0
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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
5.	VH2	Composition RD 1303	IND/ME/874(a) Appendix-B DC NO 5385 - ME 21.12.2015 Appendix-B	% by mass 35.0 to 41.0
ļ		Tetrazene	IND/ME/874(a) Appendix-B	1.6 to 2.4
6.	ME 302	Lead Styphnate	IND/ME/686(c)/ Appendix-C DC NO 5136 - ME, 08.06.2013	% by mass 48.0 to 52.0
		Tetrazene	IND/ME/686(c)/ Appendix-C	3.2 to 3.8
7.	E1 Mix	Mercury Fulminate	IND/ME/476(b)/ Appendix-C DC NO 5140 - ME, 08.06.2013	% by mass 18.0 to 20.0
8.	F1 Composition	Mercury Fulminate	IND/ME/599(a)/ Appendix-C DC NO 5137 - ME, 08.06.2013	% by mass 26.5 to 29.5
9.	ABRIC- 50	Tetrazene	IND/ME/1029(Prov)/ Appendix-C DC NO 5079 - ME, 08.05.2012	% by mass 4.2 to 5.0

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			performed	

## **MECHANICAL TESTING**

Location 2				
I.	RUBBER AND RUB	BER PRODUCTS		
1.	Neoprene (Vulcanised chloroprene)	Compression Set  Volume change	Appendix A of BS-903- A-6 Appendix B of	0.1% to 30% 30% to 110%
	Rubber	Volume change	BS-903-A-16	30 /0 10 110 /0
2.	Acrylonitrile Butadiene rubber	Compression Set	IS 3400 Part 10 : 1997	0.1% to 30%
		Volume change	IS 3400 Part 6 :2012	0.1% to 110%
II.	PAINTS			
1.	R/M , A/D , paints for general purpose all colours	Protection against corrosion under condensation	IS 101-Part-6, Sec-1, - 1988 (RA 2015)	Qualitative
2.	Paint R/M priming R.O.Zinc chrome Ammn.	Protection against corrosion under condensation	IS 101-Part-VI Sec-1, -1988 (RA 2015)	Qualitative
III.	PLASTICS AND PL	ASTIC PRODUCTS		
1.	H.D.P.E	Melt Flow Index	ASTM-D-1238 -2013	0.2 g/10 Minutes to 30 g/10 Minutes
		Density	BS-2782 Part 6-1980- Method-620A	0.7 g/ml to 2.5 g/ml

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2.	LDPE	Melt Flow Index	ASTM-D-1238 -2013	0.2 g/10 Min to 30 g/10 Min
		Density	BS-2782 Part 6 -1980, Method - 620A	0.7 g/ml to 2.5 g/ml
3.	LLDPE	Melt Flow Index	ASTM-D-1238-2013	0.2 g/10 Minutes to 30 g/10 Minutes
		Density	BS-2782 Part 6 1980, Method-620A	0.7 g/ml to 2.5 g/ml
4.	ABS	Melt Flow Index	ASTM-D-1238 -2013	0.2 g/10 min to 30 g/10 min
		Specific Gravity	ASTM-D-792 -2013 Method A-1	0.7 to 2.5
5.	Phenolic Moulding Powder Glass filled	Density	IS 867 - 1963 (RA 2008) - Clause 6	0.7 g/ml to 2.5 g/ml
6.	Nylon-66	Density	BS-2782-2000, Method 509-A	0.7 g/ml to 2.5 g/ml
7.	Polycarbonate	Melt flow index	ASTM-D-1238-2013	0.2 g/10min to 30g/10min
		Specific Gravity	ASTM-D-792-2013	0.7 to 2.5
8.	Teflon	Hardness Shore - D	ASTM-D-2240-2015	5 to 90
		Density	ASTM-D-792 -2013	0.7 kg/dm³ to 2.5 kg/dm³
IV.	EXPLOSIVES AND I	PYROTECHNICS		
1.	Single Base Propellants	Length mm	JSG-0116:1996 Method 606	10 mm to 750mm
		Ext. Dia mm	JSG-0116:1996 Method 607	1 mm to 10mm

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		Int. Dia mm	JSG-0116:1996 Method 610	0.1 mm to 3mm
		Web / annulus mm	JSG-0116:1996 Method 610	0.1 mm to 5mm
		Density g/cc	JSG-0116:1996 Method 403	1.0 g/cc to 1.8g/cc
		Bulk Density kg/dm <sup>3</sup>	JSG-0116:1996 Method 404	0.8 kg/dm <sup>3</sup> to 1.5 kg/dm <sup>3</sup>
2.	Double Base Propellants	Length	JSG-0116:1996 Method 606	10 mm to 1000mm
		Ext. Dia mm	JSG-0116:1996 Method 607	1 mm to 15mm
		Int. Dia mm	JSG-0116:1996 Method 610	0.1 mm to 3mm
		Web / annulus mm	JSG-0116:1996 Method 610	0.1 mm to 5mm
		Density g/cc	JSG-0116:1996 Method 403	1.0 g/cc to 1.8g/cc
		Bulk Density kg/dm <sup>3</sup>	JSG-0116:1996 Method 404	0.8 kg/dm³ to 1.5 kg/dm³
3.	Triple Base Propellants	Length mm	JSG-0116:1996 Method 606	10 mm to 750 mm
		Ext. Dia mm	JSG-0116:1996 Method 607	1 mm to 20 mm
		Int. Dia mm	JSG-0116:1996 Method 610	0.1 mm to 3 mm
		Web / annulus mm	JSG-0116:1996 Method 610	0.1 mm to 5 mm
		Density, g/cc	JSG-0116:1996 Method 403	1.0 g/cc to 1.85 g/cc