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

CHEMICAL TESTING

I.	METALS & ALLOYS			
1.	Carbon Steel	Chemical Analysis		
		Carbon	IS 228(Pt-1):1987 (RA 2018)	0.05 % to 1.50 %
		Manganese	IS 228(Pt-2):1987 (RA 2018)	0.10 % to 4.00 %
		Sulphur	IS 228(Pt-9):1987 (RA 2014)	0.01 % to 0.25 %
		Phosphorus	IS 228(Pt-3):1987 (RA 2018)	0.005 % to 0.20 %
		Silicon	IS 228(Pt-8):1989 (RA 2014)IS 228 (Pt-11):1990(RA 2014)	0.01 % to 0.50 %
		Nitrogen	IS 228(Pt-19):1998 (RA 2016)	0.002 % to 0.50 %
2.	Copper & its Alloys	Copper	IS 4027(Pt-1):1987 (RA 2018)IS 3685:1966 (RA 2018)	50 % to 99.99 %
		Lead	IS 4027(Pt-1):1987 (RA 2018)IS 3685:1966 (RA 2018)	0.10 % to 35 %
		Tin	IS 4027(Pt-5):1987 (RA 2018)IS 3685:1966 (RA 2018)	0.01 % to 30.0 %
		Silicon	IS 4027(Pt-10):2000 (RA 2018)IS 3685:1966 (RA 2018)	0.01 % to 20.0 %
		Manganese	IS 4027(Pt-2):1987 (RA 2018) IS 3685:1966 (RA 2018)	0.02 % to 6.0 %

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		Zinc	IS 4027(Pt-6):1987 (RA 2018) IS 3685:1966 (RA 2018)	0.1 % to 10.0 %
		Nickel	IS 4027(Pt-4):1987 (RA 2018)/ IS 3685:1966 (RA 2018)	0.1 % to 10.0 %
		Iron	IS 4027(Pt-8):-1991 (RA 2018)/ IS 3685:1966 (RA 2018)	0.01 % to 6.0 %
3.	Aluminium& its Alloys	Thickness of anodic coating	IS 5523:1983(RA 2016)	1 μm to 20 μm
II.	BUILDING MATERIA	ALS		
1.	Cement PSC/PPC/ OPC/Clinker/ Fly-Ash	Chemical Analysis: Loss of ignition	IS 4032:1985(RA 2014)/ IS 1727:1967(RA 2018)	0.1 % to 10.0 %
		Sulphuric Anhydride	IS 4032:1985(RA 2014)/ IS 1727:1967(RA 2018)	0.5 % to 5.0 %
		Insoluble residue Magnesium Oxide	IS 4032:1985(RA 2014) IS 4032:1985(RA 2014)/ IS 1727:1967(RA 2018)	0.1 % to 50.00 % 0.2 % to 25.00 %
		Calcium Oxide	IS 4032:1985(RA 2014)/ IS 1727:1967(RA 2018)	20.0 % to 80.0 %
		Ferric Oxide	IS 4032:1985(RA 2014)/ IS 1727:1967(RA 2018)	0.2 % to 15.0 %
		Aluminium Oxide	IS 4032:1985(RA 2014)/ IS 1727:1967(RA 2018)	0.5 % to 35.0 %
		Sulphide Sulphur	IS 4032:1985(RA 2014)/ IS 1727:1967(RA 2018)	0.01 % to 4.0 %

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		Silica	IS 4032:1985(RA 2014)/ IS 1727:1967(RA 2018)	-75.0 %
		Chloride	IS 4032:1985(RA 2014)	0.005 % to 0.2 %
		Alkali Content	IS 4032:1985(RA 2014)	0.1 % to 2.0 %
III.	LEATHER			
1.	Others (Leather Safety Foot wear)	Solvent extractable substances	IS 582(LC-4):1970 (RA 2014)	1.0 % to 10.0 %
		Chromium	IS 582(LC-10):1970 (RA 2014)	1.0 % to 10.0 %
IV.	PLASTICS & RESIN	IS		
1.	Plastics & Polymers	Overall Migration	IS 9845:1998(RA 2015)	Upto 10 mg/dm ² or 60 mg/lit
		Colour Migration	IS 9845:1998(RA 2015)	Qualitative

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

ELECTRICAL TESTING

I.	CABLES AND ACCE	ESSORIES		
1.	PVC Insulated cables for working voltage upto & including 1100 V,		IS 694-2010(RA 2015), IS 1554(Pt1)-1988 (RA 2015) & IS 5950-1984 (RA 2016)	
	Heavy Duty cable	Conductor Resistance Test	IS 10810(Pt5)-1984 (RA 2016)	1 mΩ to 11 Ω
	Size:Upto 35mm ² & Shot Firing	Thickness of Insulation & Sheath	IS 10810(Pt6)-1984 (RA 2016)	0.3mm to 10 mm
	Cable (Used other than Shaft)	Loss of mass Test	IS 10810(Pt10)-1984 (RA 2016)	0.2 g to 30 g
		Thermal Ageing in air oven	IS 10810(Pt11)-1984 (RA 2016)	60° C to 200° C
		Shrinkage Test	IS 10810(Pt12)-1984 (RA 2016)	0.5mm to 300 mm
		Heat Shock Test	IS 10810(Pt14)-1984 (RA 2016)	70° C to 150° C
		Hot Deformation Test	IS 10810(Pt15)-1984 (RA 2016)	0.3mm to 150mm
		Insulation Resistance Test.	IS 10810(Pt43)-1984 (RA 2016)	(10 to 100)X10 ⁶ Meg ohms100 V to 500V
		High Voltage Test (water immersion Test) a) a.c b) d.c	IS 10810(Pt45)-1984 (RA 2016)	1.5kv to 7 kV a.c (Qualitative)1kv to 5 kV d.c(Qualitative)
		Flammability Test	IS 10810(Pt53)-1984 (RA 2016)	0.2 sec to 60 sec 1mm to 300mm.
			IS 1554(Pt1)-1988 (RA 2015)	
		High Voltage Test at room temperature	IS 10810(Pt45)-1984 (RA 2016)	1.5kv to 7 kV a.c(Qualitative)

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		Thermal stability Test	IS 10810(Pt60)-1984 (RA 2016)	200°C
		Tensile Test forAluminium conductor	IS 694-2010 (RA 2015) IS 10810 (Pt2)-1984 (RA 2016)	10 N to 2500 N
		Annealing Test for copper conductor	IS 10810(Pt1)-1984 (RA 2016)	5 N to 1000 N
		a) Tensile strength & b) elongation of insulation and sheath	IS 10810(Pt7)-1984 (RA 2016)	a) 10 N to 500N b) 2 cm to 30 cm
			IS 1554(Pt1)-1988 (RA 2015)	
		Tensile test on Aluminum conductor	IS 10810(Pt2)-1984 (RA 2016)	10 N to 2500 N
		Annealing test on copper conductor	IS 10810(Pt1)-1984 (RA 2016)	10 N to 2500 N
 		Tensile test on insulation & sheath	IS 10810(Pt7)-1984 (RA 2016)	10 N to 500N
		Elongation on insulation & sheath	IS 10810(Pt7)-1984 (RA 2016)	2 cm to 30 cm
		Test on Armouring wire & strips	IS 10810(Pt.36 to 42)- 1984 (RA 2016)	
		Annealing Test for Copper Conductor	IS 5950-1984(RA 2016) IS 10810(Pt2)-1984 (RA 2016)	10 N to 500 N
		Tensile Strength of Insulation & Sheath	IS 10810(Pt7)-1984 (RA 2016)	10 N to 500N
		Elongation of & SheathInsulation	IS 10810(Pt7)-1984 (RA 2016)	2 cm to 30 cm

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Aluminium conductor for overhead Transmission Purposes,	Lay ratio Dimension of wires	IS 398(Pt1)-1996 (RA 2018)	40 mm to 150 mm
conductor for overhead Transmission Purposes,	Dimension of wires	(RA 2018)	40 mm to 150 mm
Transmission Purposes,		IC 200/Dt 2)4006	
		IS 398(Pt2)1996 (RA 2018)	1 mm to 25 mm
Aluminium Stranded	Resistance Test Wrapping Test (AAC&ACSR only)	IS 398(Pt4)-1994 (RA 2014)	1 mΩ to 11 Ω (Qualitative)
Conductors Aluminium Conductor for overhead Transmission Purposes, Aluminium Stranded	Weight of Zn-coating (ACSR Only)	-	1 g to 200 g (Qualitative)
	Breaking Load Breaking load of 'Al'	IS 398(Pt1)-1996 (RA 2018)	100 N to 5000 N 100 N to 5000 N
	Torsion test on steel wire	IS 398(Pt2)1996 (RA 2018)	500 N to 40000 N weight load 3kg to 35 kg 500N to 5000 N
Galvanized Steel Reinforced (Upto 100 mm²) Aluminium Conductor for overhead Transmission Purposes, Aluminium Alloy	Elongation	IS 398(Pt4)-1994 (RA 2014)	Stainless steel scale (0.05 cm to 30 cm)
	Conductor for overhead Fransmission Purposes, Aluminium Stranded Conductor Galvanized Steel Reinforced Upto 100 mm²) Aluminium Conductor for overhead Fransmission Purposes, Aluminium Alloy Stranded	Conductor for Dip Test (ACSR Only) Breaking Load Breaking load of 'Al' Breaking load of steel Torsion test on steel wire Breaking load Breaking load Breaking load of steel Torsion test on steel wire Breaking load Elongation Breaking load Elongation Breaking load Elongation	Conductor for Dip Test (ACSR Only) Breaking Load Breaking load of 'Al' Breaking load of steel Torsion test on steel wire Breaking load Conductor Galvanized Steel Reinforced Upto 100 mm²) Aluminium Conductor for overhead Transmission Purposes, Aluminium Conductor for overhead Transmission Purposes, Aluminium Alloy

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		of Test	_	against which tests are	Limits of Detection
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MECHANICAL TESTING

I.	MECHANICAL PROPERTIES OF METALS			
1.	Ferrous materials, alloys & products	Tensile Test Yield Stress Tensile Strength % Elongation	IS 1608:2005(RA 2017)	8 kN to 350 kN
		Bend Test	IS1599:2012(RA 2017) IS 2329:2005(RA 2017)	4 mm to 150 mm (for Flat, round) 15-50 mm NB (tube) (dia of mandrel in mm- 4, 5, 6, 7, 8, 9, 10, 11, 12, 18, 20, 23, 32, 33, 35, 40, 45, 48, 50, 54, 60, 64, 72, 80, 84, 100, 111, 112, 125, 126, 140, 150, 160, 175, 200)
		Flattening Test for tube	IS 2328:2018	>50 to 150 mm OD
<u> </u>		Re-bend Test	IS 1786:2008(RA 2013)	4 mm to 32 mm
		Dimensions, Deformation & Surface Characteristics, Mass	IS 204 (Pt 1):1991 (RA 2016) IS 274 (Pt1& 2)-1981 (RA 2013) IS 277:2018 IS 278:2009(RA 2015) IS 280:2006 (RA 2015 IS 281:2009 (RA 2013) IS 362:1991 (RA 2016) IS 513:2016 IS 808:1989 (RA 2014)IS 1029:1970 (RA 2013) IS 1038:1983 (RA 2017) IS 1079:2017 IS 1161:2014 IS 1239 (Pt-1):2004 (RA 2014), IS 1239(Pt-2) 2011	0.5 mm to 2000 mm 0.001 mm to 25 mm 25 mm to 50 mm. 0.5 g to 6000 g 0.5 mm to 300 mm

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			(RA 2016) IS 1341:1992 (RA 2017), IS1536:2001(RA 2012), IS 1538:1993 (RA 2013) IS 1730:1989 (RA 2014) IS 1732:1989 (RA 2014) IS 1759:1986 (RA 2014) IS 1759:1986 (RA 2013) IS1785(Pt1&2):1983 (RA 2013) IS1786:2008 (RA 2013) IS1786:2008 (RA 2013) IS 1993:2006 (RA 2016) IS 2141:2000 (RA 2016) IS 2879:1998 (RA 2013) IS 3589:2001 (RA 2017) IS 3601:2006 (RA 2017) IS 3954:1991 (RA 2016) IS 4109:1967 (RA 2016) IS 4109:1967 (RA 2016) IS 6006:2014 IS 6392:1971 (RA 2013) IS1875:1992 (RA 2014) IS3502:2009 (RA 2015) IS7887:1992 (RA 2017) IS10748:2004 (RA 2014) IS11513:2017	0.5 mm to 2000 mm 0.001 mm to 25 mm 25 mm to 50 mm. 0.5 g to 6000 g 0.5 mm to 300 mm 0.01 mm to 300mm 0.01 mm to 25 mm
		Brinell Hardness	IS 5290-1993(RA 2013) IS 1500 (Part 1):2013	200 to 350 HBW 10/3000
2.	Aluminium materials, alloys & products	Dimensions	IS 204(Pt 2):1992 (RA 2017), IS 205:1992 (RA 2017) IS 208:1996 (RA 2017), IS 2681:1993 (RA 2013) IS 7092 (Pt 1):1992(RA 2017) IS 7092(Pt 2):1987 (RA 2017)	0.001 mm to 25 mm 25 mm to 50 mm. 0.5 mm to 300 mm

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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
		Dimension of Eyelets	IS 5041:1978 (RA2013)	0.01 mm to 25 mm 0.01 mm to 150 mm
3.	Copper materials, alloys & products	Dimensions	IS 5290-1993(RA 2013)	0.01 mm to 300 mm 0.01 mm to 25 mm
4.	Others(Toe Cap)	Dimensions, Performance Test & Finish	IS 5852:2004(RA2016)	0.01 mm to 150 mm 0.01 mm to 25 mm
II.	WOOD AND WOOD	PRODUCTS		
1.	Plyboard	Moisture Content	IS 1734 (Pt 1):1983 (RA 2013)	(2 to 30)%
		Adhesion of Plies	IS 1734 (Pt 5):1983 (RA 2013)	(10 to 16000)N
		Water resistance	IS 1734 (Pt 6):1983 (RA 2013)	(10 to 16000)N
		Mycological Test	S 1734 (Pt7):1983 (RA 2013)	(10 to 16000)N
		Tensile Strength	IS 1734 (Pt9):1983 (RA 2013)	(4 to 100)MPa
		Static Bending Strength MOE & MOR	IS 1734 (Pt 11):1983 (RA 2013)IS 710:2010 (RA 2017)	(10 to 16000)Mpa
		End immersion	IS 4020 (Pt 13):1998 (RA 2013)	Qualitative
		Knife test	IS 4020(Pt 14):1998 (RA 2013)	Qualitative
		Glue Adhesion test	IS 4020(Pt 15): 1998 (RA 2013)	Qualitative

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III.	PERFORMANCE/DU	IRABILITY/SAFETY TEST		
A.	Domestic Appliance	9 \$		
1.	Domestic Pressure Cookers	Capacity Test	IS 2347:2017	(0.5 to 22) lit (5 to 500) ml (10 to 1000) ml
		Temperature Responsive safety pressure device Test	IS 2347:2017	(0.1 to 4) kgf/cm ² kg/cm ²
 		Air Pressure Test	IS 2347:2017	(0.05 to 1.6) kgf/cm ²
		Proof pressure & Bursting Pressure Test	IS 2347:2017	(0.2 to 7) kgf/cm ² & (0.25 to 21)
		Operating Test for Pressure Regulating Device	IS 2347:2017	(0.05 to 1.6)kgf/cm ²
		Safety Pressure Relief Device	IS 2347:2017	(0.1 to 4) kgf/cm ²
		Check the Workmanship & Finish	IS 2347:2017	
IV.	TEXTILE MATERIAL	.S		
1.	Jute& its products	Measurement of length & width	IS 1943:1995(RA 2016), IS 2566:1993 (RA 2016), IS 12650:2003(RA 2012), IS 15138:2010 (RA 2015), IS 3667:1993 (RA 2016), IS 3984:2002(RA 2016), IS 16186:2014	(0.5 to 200) cm (0.5 to 100) cm
		Measurement of Ends, Picks	IS 1943:1995 (RA 2016), IS 2566:1993 (RA 2016), IS 12650:2003(RA 2012), IS 15138:2010(RA 2015), IS 3667:1993(RA 2016), IS 16186:2014	(20 to 110)/dm

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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
		Measurement of stitches	IS 1943:1995 (RA 2016), IS 2566:1993 (RA 2016), IS 12650:2003 (RA 2012), IS 15138:2010 (RA 2015), IS 9113:2012, IS 16186:2014	(5 to15)/dm
		Mass &Thickness of liner	IS 15138:2010 (RA 2015)	(0.001 to 200) g (0.01 to 25) mm
		Mass & Moisture regain (%) of Jute Bags & fabric	IS 1943:1995 (RA 2016), IS 2566:1993 (RA 2016), IS 12650:2003 (RA 2012), IS 15138:2010 (RA 2015), IS 3667:1993 (RA 2016), IS 3984:2002 (RA 2016), IS 16186:2014	(0.5 to 6000) g 8 % to 30 %
		Measurement of Oil content	IS 1943:1995 (RA 2016), IS 2566:1993 (RA 2016), IS 12650:2003 (RA 2012), IS 15138:2010 (RA 2015), IS 3667:1993 (RA 2016), IS 16186:2014	(0.1 to 5) %
		Breaking Load Test	IS 1969:1985 (RA 2010)	(50 to 4000) N
		Seam Strength	IS 9030:1979 (RA 2014)	(50 to 4000) N
2.	Jute& its products	Threads/dm of Canvas & Cotton Drill Width & Breaking Load of Binding Material	IS 1963:2004 (RA 2014) IS 1969(P-1): 2009 (RA 2014), IS 1969 (P-2): 2010 (RA 2014),	(20 to 400)/dm (20 to 300/dm) (0.01 to 150) mm (10 to 5000)N
		Length, Breaking Load & Slip Resistance of Laces	IS 1954:1990 (RA 2017) IS 4778:1982 (RA 2017), IS 1969(P-1): 2009 (RA 2014), IS 1969(P-2): 2010 (RA 2014)	(0.5 to 2000) mm (2 to 1000) N

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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
٧.	PLASTIC AND POL	YMERS		
1.	Plastic pipes & Accessories HDPE Pipe	Dimensions	IS 4984-2016	(0.01 to 25) mm (0.01 to 300) mm (0.5 to 300) mm
		Reversion Te	IS 4984-2	-3% to +3
		Melt Flow Rate	IS 2530:1963 (RA 2013)	(0.1 to 1.1) g/10 Min
2.	UPVC Potable water Pipe	Dimensions	IS 4985-2000 (RA 2015)	(0.01 to 300) mm
		Resistance to External Blow at 0°C	Annx C of IS 4985:2000 (RA 2015)	Qualitative
3.	PVC Fittings & 90° bend (Potable water supplies)	Dimensions	IS 10124 (Pt 2):2009 (RA 2014) IS 10124 (Pt 8):2009 (RA 2014)	(0.01 to 300) mm
4.	Packaging & containers	Wall Thickness	IS 2798:1998	(0.001 to 25) mm
		Capacity	IS 2798:1998	(1 to 2000) ml
		Transparency	IS 15410:2003	(1 to 100) %
		Leakage Test	IS 2798:1998	Qualitative
		Drop Test	IS 2798:1998	Qualitative
VI.	RUBBER AND RUB	BER PRODUCTS		
Α.	Gaskets, Seals, & P	ackings		
1.	Rubber Sealing Ring	Stretch Test	IS 5382:1985 (RA 2013)	Qualitative
		Tensile Strength & Elongation at break	IS 3400 (Pt 1): 2012 (RA 2017)	(2 to 40) MPa (5 to 500) %
		Compression Set	IS 3400 (Pt X):1977 (RA 2013)	(5 to 70) %
		Accelerated ageing in air	IS 3400 (Pt 4): 2012 (RA 2017)	Tensile Strength (2 to 40) MPa Elongation (5 to 500) %

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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
		Water immersion test	IS 3400 (Pt 6): 2012 (RA 2017)	(0.1 to 15) %
		Water Absorption Test	IS 5382:1985 (Appn-C) (RA 2013)	(0.1 to 20) %
B.	Others			
1.	Branch Pipe & Nozzle (Fire hose)	Dimensions	IS 903-1993 (RA 2013)	(0.01 to 25) mm (0.01 to 300) mm (0.5 to 1000) mm
2.	Rubber (Boots & Shoes)	Relative density of foxing & toe cap of Rubber Sole & Heellmpact Test	IS 3400:(Pt 9):2014 IS 3976:2003 (RA 2016), IS 11226:1993 (RA 2013), IS 1989 (Pt 1):1986 (RA 2016), IS 1989 (Pt 2):1986 (RA 2016) IS 3400 (Pt 1):2017	0.01 to 3.0 (0.01 to 300) mm
		Tensile strength & Elongation at break of rubber sole & heel Compression Set Test of Rubber sole & heel Measurement of cut growth of rubber by Ross	IS 3400(Pt X):1977 (RA 2013) IS 3400 (Pt XVI):1974 (RA 2017)	(2 to 40) MPa (5 to 500) % (5 to 70) %
		flexing machine Ageing Test (in air)	IS 3400 (Pt 4):2012 (RA 2017)	Qualitative Tensile Strength (2 to 40) MPa
			IS 3400 (Pt 5):1986 (RA 2013)	Hardness (20 to 100) IRHD Elongation (5 to 500) %

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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
		Adhesion & Consolidation Test of Foxing & Composite Rubber	1989 (Pt 1):1986 (RA 2016), IS 1989 (Pt 2):1986 (RA 2016),	Qualitative
		Determination of Mass	IS 3735:1996 (RA 2016), IS 5676:1995	(5 to 6000) g
		Flexing Endurance Test of Body	(RA 2016), IS 11226:1993 (RA 2013), IS 3976:2003	Qualitative
		Leakage Resistance Test	(RA 2016) IS 5557:2004 (Appn-B) (RA 2016) IS 5557:2004 (RA 2016)	Qualitative