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I	BUILDING MATE	CRIALS					
1.	Cement (OPC, PPC, White Cement, PSC, Clinker)	Silica as SiO <sub>2</sub>	IS 4032: 1985 (RA 2014)	15.0 % t	o 45.0 %		
		Iron Oxide as Fe <sub>2</sub> O <sub>3</sub>		0.1 % to	10.0 %		
		Alumina asAl <sub>2</sub> O <sub>3</sub>		0.1 % to	15.0 %		
		Calcium Oxide CaO		30.0 % t	o 70.0 %		
		Magnesia as MgO		0.1 % to	10.0 %		
		Sulphuric Anhydride as SO <sub>3</sub>		0.1 % to	5.0 %		
		Insoluble Residue		0.1 % to	40.0 %		
		Loss on Ignition		0.1 % to	10.0 %		
		Manganic Oxide as Mn <sub>2</sub> O <sub>3</sub>		0.05 % t	o 5.0 %		
		Sulphide as Sulphur		0.1 % to	5.0 %		
		Moisture Content		0.05 % t	o 5.0 %		
		Chloride Content		0.005 %	to 0.50 %		

Sodium Oxide as Na<sub>2</sub>O

Potassium Oxide as K<sub>2</sub>O

Titanium Oxide as  $\mathrm{TiO}_2$ 

Phosphorus Oxide as P<sub>2</sub>O<sub>5</sub>

0.005 % to 5.0 %

0.005 % to 5.0 %

0.05 % to 2 %

0.01 % to 3 %

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2.	Fly Ash	Silica as SiO <sub>2</sub>	IS 1727: 1967 (RA 2013)	20.0 % t	o 70.0 %		
		Alumina as Al <sub>2</sub> O <sub>3</sub>		5.0 % to	40.0 %		
		Iron Oxide as Fe <sub>2</sub> O <sub>3</sub>		0.5 % to	10.0 %		
		Magnesia as MgO		0.1 % to	10.0 %		
		Sulphuric Anhydride as SO <sub>3</sub>		0.1 % to	5.0 %		
		Loss on Ignition		0.1 % to	15.0 %		
		Total Chloride	IS 4032: 1985 (RA 2014)	0.005 %	to 0.5 %		
		Reactive Silica	IS 3812 (Part 1): 2013	20 % to	45 %		
		Sodium Oxide (Na <sub>2</sub> O)	IS 4032: 1985 (RA 2014)	0.03 % t	o 5.0 %		
		Potassium oxides as K <sub>2</sub> O		0.03 % t	o 5.0 %		
		Calcium oxide as CaO	IS 1727: 1967 (RA 2013)	0.05 % t	o 5.0 %		
3.	Construction chemicals-	рН	IS 9103: 1999 (RA 2013)	1 to 13			
	Admixture	Chloride Content		0.005 %	to 0.5 %		
		Dry Material Content		5.0 % to	80.0 %		
		Relative Density		0.8 % to	2.0		
		Ash Content		0.05 % t	o 40 %		
4.	Aggregates	Alkalies as Na <sub>2</sub> O	IS 4032: 1985 (RA 2014)	0.01 % t	o 0.5 %		
		Sulphate as SO <sub>3</sub>		0.01 % t	05%		

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	Aggregates	Acid Soluble Chloride content	IS 4032: 1985 (RA 2014)	0.005 %	to 1.0 %		
		Silica as SiO <sub>2</sub>		0.1 % to	70 %		
		Sulphur as S		0.005 %	to 2 %		
		Iron as FeO		0.1 % to	70 %		
		Calcium Oxide as CaO		0.1 % to	45 %		
		Magnesium Oxide as MgO		0.1 % to	10 %		
		Chlorine as NaCl		0.005 %	to 0.5 %		
		Water Soluble chloride	IS 14959 (Part 2): 2001 (RA 201	11) 0.005 %	to 0.2 %		
5.	Bitumen Mastic for Flooring	Calcium Carbonate as CaCO <sub>3</sub>	IS 1195: 2002 (RA 2014) Annx	C 50 % to	99.8 %		
6.	Gypsum	Free water	IS 1288: 1982 (RA 2010)	0.1 % to	10 %		
		Combined water		1 % to 2	0 %		
		Silica as SiO <sub>2</sub>		0.1 % to	15 %		
		Magnesium Oxide as MgO		0.01 % t	o 1.5 %		
		Calcium Oxide as CaO		5 % to 4	0 %		
		Iron Oxide as Fe <sub>2</sub> O <sub>3</sub>		0.01 % t	o 2 %		
		Sodium Chloride as NaCl		0.005 %	to 5 %		
		Alumina as Al <sub>2</sub> O <sub>3</sub>		0.1 % to	2 %		
		SO <sub>3</sub>		10 % to	56 %		

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II.	SOLID FUELS				
1.	Coal, Coke,	Moisture Content	IS 1350 (Part 1): 1984 (RA 2002)	0.5 % to	30 %
Briquettes	Briquettes	Ash Content		0.5 % to	60 %
		Volatile Matter		0.1 % to	60 %
		Fixed Carbon		By Calc	ulation
		Gross Calorific Value	IS 1350 (Part 2): 1970 (RA 2000)	1000 kc	al/kg to 8500 kcal/kg
		Sulphur	IS 1350 (Part 3): 1969 (RA 2000)	0.05 % t	o 10 %
III.	WATER				
1.	Construction Water	рН	IS 3025 (Part 11): 1983 (RA 2002)	1 to 13	
	Water	Sulphate as SO <sub>4</sub>	IS 3025 (Part 24): 1986 (RA 2003)	5 mg/l to	o 2000 mg/l
		Chloride	IS 3025 (Part 32): 1988 (RA 2003)	1 mg/l to	o 2000 mg/l
		Suspended matter	IS 3025 (Part 17): 1984 (RA 2012)	1 mg/l to	o 3000 mg/l
		Organic matter	IS 3025 (Part 63): 2006	2  mg/l to	o 1000 mg/l
		Inorganic matter	IS 3025 (Part 16): 1984 (RA 2012)	1 mg/l to	o 2000 mg/l
		Alkalinity/ To Neutralize with H <sub>2</sub> SO <sub>4</sub> , 0.02N	IS 3025 (Part 23): 1986 (RA 2003)	0 to 25 r	nl
		Acidity / To Neutralize with NaOH, 0.02N	IS 3025 (Part 22): 1986 (RA 2003)	0 to 5 m	1

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2.	Ground And Surface Water	рН	IS 3025 (Part 11): 1983 (RA 2002	2) 1 to 13	
	Surface water	Sulphate as SO <sub>4</sub>	IS 3025 (Part 24): 1986 (RA 2003	3) 5 mg/l to	o 2000 mg/l
		Chloride	IS 3025 (Part 32): 1988 (RA 2003	3) 1 mg/l to	o 2000 mg/l
		Suspended matter	IS 3025 (Part 17): 1984 (RA 2012	2) 1 mg/l to	o 3000 mg/l
		Organic matter	IS 3025 (Part 63): 2007	2 mg/l to	o 1000 mg/l
		Inorganic matter	IS 3025 (Part 16): 1984 (RA 2012	2) 1 mg/l to	o 2000 mg/l
		Salt (NaCl)	IS 3025 (Part 32): 1988 (RA 2003	3) 1 mg/l to	o 2000 mg/l
		Alkalinity/ To Neutralize with H <sub>2</sub> SO <sub>4</sub> , 0.02N	IS 3025 (Part 23): 1986 (RA 2003	3) 0 to 25 r	nl
		Acidity / To Neutralize with NaOH, 0.02N	IS 3025 (Part 22): 1986 (RA 2003	3) 0 to 5 m	1
		Total Residue (Total Solid – Dissolved Solids & Suspended)	IS 3025 (Part 15): 1984, Rev. 1	5 mg/l to	o 10000 mg/l
		Total Hardness	IS 3025 (Part 21): 2009	2 mg/l to	o 10000 mg/l
		Sulphites as SO <sub>3</sub>	IS 3025 (Part 28): 1986 (RA 2009	9) 5 mg/l to	o 500 mg/l
		Oil and grease /Mineral Oil	IS 3025 (Part 39): 1991 (RA 2009	2  mg/l to	o 1000 mg/l
		Aluminum as Al	IS 3025 (Part 55): 2003 (RA 2009	9) 5.0 mg/l	to 500 mg/l
		Calcium as Ca	IS 3025 (Part 40): 1991 (RA 2009	9) 0.5 mg/l	to 1000 mg/l
		Magnesium as Mg	IS 3025 (Part 46): 1994 (RA 2009	9) 0.5 mg/l	to 1000 mg/l

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	Ground And	Copper as Cu	IS 3025 (Part 42): 1992 (RA 200	09) 0.02 mg	/l to 1000 mg/l	
	Surface Water	Free Residual Chlorine	IS 3025 (Part 26): 1991 (RA 200	09) 0.001 m	g/l to 100 mg/l	
		Iron As Fe	IS 3025 (Part 53): 2003 (RA 200	09) 0.01 mg	/l to 1000 mg/l	
		Manganese as Mn	IS 3025 (Part 59): 2006 (RA 201	2) 0.001 m	g/l to 1000 mg/l	
		Selenium as Se	IS 3025 (Part 56): 2003 (RA 200	09) 0.005 m	g/l to 1000 mg/l	
		Zinc as Zn	IS 3025 (Part 49): 1994 (RA 200	09) 0.01 mg	/l to 1000 mg/l	
		Cadmium as Cd	IS 3025 (Part 41): 1992 (RA 200	09) 0.001 m	g/l to 1000 mg/l	
		Lead as Pb	IS 3025 (Part 27): 1986 (RA 200	09) 0.1 mg/l	to 100 mg/l	
		Mercury as Hg	IS 3025 (Part 48): 1994 (RA 200	09) 0.001 m	g/l to 10.0 mg/l	
		Molybdenum as Mo	KTRC/SOP/07 Dated. 25.06.201	.4 0.001 m	g/l to 1000 mg/l	
		Nickel as Ni	IS 3025 (Part 53): 2003 (RA 200	09) 0.01 mg	/l to 1000 mg/l	
		Total Arsenic as As	IS 3025 (Part 37): 1986 (RA 200	09) 0.001 m	g/l to 10.0 mg/l	
		Total Chromium as Cr	IS 3025 (Part 52): 2003 (RA 200	09) 0.2 mg/l	to 1000 mg/l	
IV.	ORES AND MINE	RALS				
1.	Lime Stone & Dolomite	Loss on ignition	IS 1760 (Part 1): 1991 (RA 2001	) 1 % to 5	0.0 %	
	Dolonne	Calcium oxide as CaO	IS 1760 (Part 3): 1992 (RA 2001	) 0.5 % to	55 %	
		Magnesium Oxide as MgO		0.5 % to	52 %	
		Silica as SiO <sub>2</sub>	IS 1760 (Part 2): 1991 (RA 2001	) 0.5 % to	25 %	

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	Lime Stone &	Alumina as Al <sub>2</sub> O <sub>3</sub>	IS 1760 (Part 3): 1992 (RA 2001	1) 0.1 % to	15 %	
	Dolomite	Iron Oxide as Fe <sub>2</sub> O <sub>3</sub>		0.05 % t	o 10 %	
		Chloride as Cl	IS 1760 (Part 5): 1991 (RA 2001	1) 0.005 %	to 1 %	
2.	Manganese Ore	Silica as SiO <sub>2</sub>	IS 1473: 2004 (RA 2016)	0.25 % t	o 25 %	
		Alumina as Al <sub>2</sub> O <sub>3</sub>		0.1 % to	25 %	
		Iron Oxide as Fe <sub>2</sub> O <sub>3</sub>		0.05 % t	o 30 %	
		Manganese Dioxide as MnO <sub>2</sub>		0.1 % to	80 %	
		Manganese Oxide as MnO		0.1 % to	60 %	
		Manganese as Mn		5 % to 6	5 %	
		Sulphur as S		0.01 % t	o 0.5 %	
		Phosphorus as P		0.005 %	to 1.0 %	
3.	Iron Ores	Silica as SiO <sub>2</sub>	IS 1493 (Part 1): 1981 (RA 2001	1) 0.1 % to	o 40 %	
		Alumina as Al <sub>2</sub> O <sub>3</sub>		0.1 % to	10 %	
		Total Iron as Fe		5 % to 6	5 %	
		Manganese as Mn	IS 1493: 1959 KTRC/SOP/07 dt 25.06.2014	0.01 % t	05%	
		Phosphorus as P	IS 1493 (Part 1): 1981 (RA 2001	1) 0.005 %	to 1.0%	
		Moisture		0.05 % t	o 10 %	
		Titanium Oxide as TiO <sub>2</sub>	IS 1493 (Part 3): 1987 (RA 2001	1) 0.01 % t	08%	

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4.	Bauxite	Loss on ignition	IS 2000 (Part 1): 1985 (RA 2001)	1 % to 40 %
		Silica as SiO <sub>2</sub>	IS 2000 (Part 2): 1985 (RA 2001)	0.1 % to 10 %
		Alumina as Al <sub>2</sub> O <sub>3</sub>	IS 2000 (Part 3): 1985 (RA 2001)	5 % to 65 %
		Iron Oxide as Fe <sub>2</sub> O <sub>3</sub>	IS 2000 (Part 4): 1985(RA 2001)	0.5 % to 25 %
		Titanium Oxide as TiO <sub>2</sub>	IS 2000 (Part 5): 1985 (RA 2001)	0.1 % to 12 %
5.	Silica Sands / Mineral Sands	Loss on Ignition	IS 1917 (Part 1): 1991 (RA 2006)	0.05 % to 2.0 %
		Sodium and potassium	IS 1917 (Part 2): 1991 (RA 2006)	0.01 % to 1.5 %
		Silica as SiO <sub>2</sub>	IS 1917 (Part 3): 1992 (RA 2005)	2.0 % to 95 %
		Aluminum as Al	IS 1917 (Part 4): 1991 (RA 2006)	0.001 % to 5.0 %
		Iron as Fe	IS 1917 (Part 5): 1992 (RA 2005)	0.05 % to 3 %
		Calcium and Magnesium as Ca & Mg	IS 1917 (Part 6): 1992 (RA 2005)	0.05 % to 5 %
		Titania as TiO <sub>2</sub>	IS 1917 (Part 7): 2001 (RA 2006)	0.01 % to 2 %
6.	Salt (Iodized Salt	Moisture	IS 7224: 2006 (RA 2016)	0.05 % to 10 %
	& Common Salt)	Water Soluble Matter	IS 253: 2014	0.05 % to 1 %
		Chloride Content as NaCl		80 % to 100 %
		Matter Soluble in water other than Sodium Chloride		0.05 % to 5.0 %
		Calcium as Ca		0.01 % to 0.5 %

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	Salt (Iodized Salt	Magnesium as Mg	IS 7224: 2006 (RA 2016)	0.01 % t	o 0.5 %		
	& Common Salt)	Sulphate as SO <sub>4</sub>	IS 253: 2014	0.01 % t	o 1.0 %		
		Alkalinity as Na <sub>2</sub> CO <sub>3</sub>		0.01 % t	0 0.5 %		
		Arsenic as As		0.0001 n	ng/g to 1.0 mg/g		
		Iron as Fe		0.001 mg	g/g to 100 mg/g		
		Iodine content	IS 7224: 2006 (RA 2016)	0.002 mg	g/g to 10mg/g		
V.	METALS AND AL	LLOYS					
1.	Carbon Steel,	Carbon as C	IS 228 (Part 1): 1987 (RA 2008	) 0.05 % t	0 2.5 %		
	Stainless Steel, Special Steel,	Sulphur as S	IS 228 (Part 9): 1989	0.01 % t	o 0.25 %		
	Low/High Alloy Steel	Phosphorus as P	IS 228 (Part 3): 1987 (RA 2008	B) 0.005 %	to 0.5 %		
		Manganese as Mn	IS 228 (Part 2): 1987 (RA 2008 IS 228 (Part 12): 2001 (RA 200	·			
		Silicon as Si	IS 228 (Part 8): 1989 (RA 2009	) 0.05 % t	o 5.0 %		
		Nitrogen as N	IS 228 (Part 19): 1998	0.002 %	to 0.5 %		
		Molybdenum as Mo	IS 228 (Part 7): 1990 (RA 2006 IS 228 (Part 10): 1989 (RA 200				
		Nickel as Ni	IS 228 (Part 5): 1987 (RA 2009	9) 0.1 % to	10 %		
		Copper as Cu	IS 228 (Part 21): 2003 (RA 200 IS 228 (Part 15): 1992 (RA 200	,			

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	Carbon Steel, Stainless Steel, Special Steel, Low/High Alloy Steel	Chromium as Cr	IS 228 (Part 5): 1987 (RA 2009	9) 0.1 % to	20 %		
		Aluminum as Al	KTRC/SOP/07 dt 25.06.2014	0.01 % t	o 1.5 %		
		Chromium as Cr		0.01 % t	o 26 %		
		Copper as Cu		0.01 % t	o 3.0 %		
		Manganese as Mn		0.005 %	to 12 %		
		Molybdenum as Mo		0.001 %	to 4.0 %		
		Nickel as Ni		0.001 %	to 25 %		
		Titanium as Ti		0.005 %	to 1.0 %		
		Vanadium as V		0.005 %	to 4.0 %		
		Phosphorus as P		0.002 %	to 0.25 %		
		Boron as B		0.0005 %	6 to 0.5 %		
2.	Aluminum And	Silicon as Si	KTRC/SOP/07 dt 25.06.2014	0.001 %	to 2 %		
	Its Alloys	Copper as Cu		0.002 %	to 8.0 %		
		Iron as Fe		0.005 %	to 5.0 %		
		Magnesium as Mg		0.001 %	to 10.0 %		
		Zinc as Zn		0.005 %	to 8.0 %		
		Manganese as Mn		0.005 %	to 5.0 %		

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	Aluminum And	Chromium as Cr	KTRC/SOP/07 dt 25.06.2014	0.005 %	to 1.0 %		
	Its Alloys	Nickel as Ni		0.01 %	0.01 % to 5.0 %		
		Titanium as Ti		0.001 %	0.001 % to 1.0 %		
		Lead as Pb		0.001 %	to 0.5 %		
3.	Zinc and its alloys	Iron as Fe	KTRC/SOP/07 dt 25.06.2014	0.01 % t	o 10.0 %		
		Copper as Cu		0.001 %	to 45 %		
		Nickel as Ni		0.001 %	to 1.0 %		
		Lead as Pb		0.001 %	to 10.0 %		
		Aluminum as Al		0.01 %	to 5.0 %		
		Cadmium as Cd		0.005 %	to 0.5 %		
4.	Copper and its	Zinc as Zn	KTRC/SOP/07 dt 25.06.2014	0.001 %	to 40 %		
	Alloys	Lead as Pb		0.001 %	to 10 %		
		Nickel as Ni		0.01 % t	o 5 %		
		Iron as Fe		0.01 % t	o 5 %		
		Aluminum as Al		0.01 % t	o 25 %		
		Arsenic as As		0.01 % t	o 0.5 %		
		Silicon as Si		0.001 %	to 2 %		
		Cadmium as Cd		0.005 %	to 1 %		

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VI.	METALLIC COA	FING & TREATMENT SOLU	TIONS			
1.	Metallic Coating of sheets, wires and zinc coated articles	Mass of Zinc Coating	IS 6745: 1972 (RA 2011)	20 g/m <sup>2</sup>	20 g/m <sup>2</sup> to 1500 g/m <sup>2</sup>	
		Uniformity of Zinc Coating	IS 4826: 1979 (RA 2011) IS 2633: 1986 (RA 2011)	Qualitati	Qualitative	
VII.	SOIL AND ROCK					
1.	<b>Clays and Soils</b>	pH	IS 2720 (Part 26): 1987 (RA 20	11) 1 to 13	1 to 13	
		Sulphate as SO <sub>4</sub>	IS 2720 (Part 27): 1977 (RA 20	10) 0.005 %	0.005 % to 5 % 0.005 % to 5 %	
		Chloride as Cl		0.005 %		
		Calcium Carbonate as CaCO <sub>3</sub>	IS 2720 (Part 23): 1976 (RA 20	10) 0.05 % t	0.05 % to 80 %	
		Nitrogen as N	IS 14684: 1999 (RA 2008)	0.002 %	0.002 % to 10 %	
		Organic Matter	IS 2720 (Part 22): 1972 (RA 20	10) 0.05 % t	0.05 % to 2.5 %	
		Silica as SiO <sub>2</sub>	IS 2720 (Part 25): 1982 (RA 20)	10) 0.1 % to	50 %	