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SI.	Product (s) / Material of Test	Specific Test Performed	Test Method / Standard against which tests are performed	Range of Testing / Limits of Detection
		СНЕМІ	CAL TESTING	
l.	BUILDING MATE	RIAL		
1.	Cement	Loss on Ignition	IS 4032	0.2% to 10%
		Silica	IS 4032	15% to 40%
		Insoluble Residue	IS 4032	0.1% to 40%
		Iron Oxide	IS 4032	0.1% to 10%
		Aluminum Oxide	IS 4032	1.0% to 20%
		Calcium Oxide	IS 4032	40% to 70%
		Magnesium Oxide	IS 4032	0.1% to 20%
		Sulfuric anhydride	IS 4032	0.1% to 10%
		Chloride	IS 4032 Amendment No-2	0.006% to 0.2%
		Alkali Content	IS 4032	0.001% to 1.0%
2.	Concrete	Chloride	IS 14959 IS 4032	0.001% to 2% (0.001%)
		Sulphate	IS 2317 IS 4032	0.001% to 5% (0.001%)
		Alkali Content	IS 4032	0.001% to 1.0% (0.001%)
3.	Fly ash	SiO ₂	IS 4032	5 % to 70%
		Magnesia,% by mass	IS 1727	1 % to 5%
		Total Sulphur (as SO ₃)	IS 1727	1 % to 10%
		LOI,% by mass	IS 1727	0.2 % to 20%
		Chloride	IS 1727	0.005 to1%
		Available Alkali	IS 4032	0.001% to 2%
		Reactive silica	IS 3812	5% to 40%

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4.	Other	рН	IS 9103	2% to 14
••	Admixture	Dry material	IS 9103	0.1% to 100%
		Ash content	IS 9103	0.1% to 20%
		Relative density	IS 9103	1.000% to 1.500%
		Chloride	IS 6925	0.005% to 2%
5.	Other (Micro	Silica	IS 1727	70% to 95%
	Silica)	2Moisture	IS 1727	0.1% to 5%
		L.O.I	IS 1727	0.1% to 5%
		Alkali Content	IS 4032	0.001% to 2%
II.	METAL & ALLOY	'S		
1.	Carbon Steel	Carbon	IS 228 (Part 1)	0.05% to 1.50%
		Manganese	IS 228 (Part 2)	0.05% to 1.50%
		Phosphorous	IS 228 (Part 3)	0.01% to 1.50%
		Sulphur	IS 228 (Part 9)	0.01% to 0.25%
		Silicon	IS 228 (Part 8)	0.05% to 1.0%
		Carbon Equivalent	IS 228 (Part 1 & 2) IS 1786	0.05% to 1.50%
2.	Alloys Steel	Carbon	IS 228 (Part 1)	0.05% to 0.4%
		Manganese	IS 228 (Part 2)	0.05% to 1.50%
		Nickel	IS 228 (Part 5)	0.1% to 30%
		Chromium	IS 228 (Part 6)	0.1% to 30%
		Silicon	IS 228 (Part 8)	0.05% to 2.0%
		Molybdenum	IS 228 (Part 7)	0.1% to 5.0%
		Sulphur	IS 228 (Part 9)	0.01% to 0.25%
		Phosphorous	IS 228 (Part 3)	0.01% to 1.5%
		Copper	IS 228 (Part 15)	0.05% to 5%
			<u> </u>	

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Stainless steel	Carbon	IS 228 (Part 1)	0.05% to 0.4%
	Manganese	IS 228 (Part 2)	0.05% to 1.50%
	Nickel	IS 228 (Part 5)	0.1% to 30%
	Chromium	IS 228 (Part 6)	0.1% to 30%
	Silicon	IS 228 (Part 8)	0.05% to 2.0%
	Molybdenum	IS 228 (Part 7)	0.1% to 5.0%
	Sulphur	IS 228 (Part 9)	0.01% to 0.25%
	Phosphorous	IS 228 (Part 3)	0.01% to 1.5%
	Copper	IS 228 (Part 15)	0.05% to 5%
Special steel	Carbon	IS 228 (Part 1)	0.05% to 1.5%
	Manganese	IS 228 (Part 2)	0.05% to 1.0%
	Nickel	IS 228 (Part 5)	0.1% to 4.0%
	Chromium	IS 228 (Part 6)	0.1% to 2.0%
	Silicon	IS 228 (Part 8)	0.05% to 1.0%
	Molybdenum	IS 228 (Part 7)	0.1 % to 2.0%
	Sulphur	IS 228 (Part 9)	0.01 % to 0.25%
	Phosphorous	IS 228 (Part 3)	0.01% to 1.5%
	Copper	IS 228 (Part 15)	0.05 % to 5.0 %
Other	Sulphur	IS 228 (Part 9)	0.001% to 0.25%
(HTS Wire)	Phosphorous	IS 228 (Part 3)	0.001% to 1.5%
METALLIC COAT	ING & TREATMENT SOLU	I FION	
Metallic Coating	Mass of Zinc coating	IS 6745	10 to 500 g/m ²
	Thickness of Anodic Coating	IS 5523	2 to 50 micron
	Stainless steel Special steel Other (HTS Wire) METALLIC COAT	Stainless steel Carbon Manganese Nickel Chromium Silicon Molybdenum Sulphur Phosphorous Copper	Material of Test

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SI.	Product (s) / Material of Test	Specific Test Performed	Test Method / Standard against which tests are performed	Range of Testing / Limits of Detection
IV.	WATER			
1.	Drinking Water	Colour Taste Turbidity Odour TDS Iron Fluoride Nitrate Magnesium Calcium	IS 3025 (Part 4) IS 3025 (Part 8) IS 3025 (Part 10) IS 3025 (Part 5) IS 3025 (Part 16) IS 3025 (Part 53) IS 3025 (Part 60) IS 3025 (Part 34) IS 3025 (Part 46) IS 3025 (Part 46) IS 3025 (Part 40)	Qualitative Qualitative 1 to 50 NTU Qualitative 01 mg/l to 20000mg/l 0.05 mg/l to 10 mg/l 0.05 mg/l to 100mg/l 0.5 mg/l to 100mg 0.5 mg/l to 100mg/l 2.0 mg/l to 1000mg/l
		Total Hardness pH	IS 3025 (Part 21) IS 3025 (Part 11)	2.0 mg/l to 2000mg/l 2 to 14
2.	Construction Water	pH Total dissolved Solids Total Suspended Solids Acidity i.e 0.02 N NaOH in ml required for 100 ml water sample using phenolphthalein indicator	IS 3025 (Part 11) IS 3025 (Part 16) IS 3025 (Part 17) IS 3025 (Part 22)	2 to 14 10 mg/l to 5000mg/l 5 mg/l to 5000mg/l 0.1 ml to 10 ml
		Alkalinity i.e 0.02 N H2SO4 required for 100ml water sample using mixed indicator Organic Solid Inorganic Solid	IS 3025 (Part 23) IS 3025 (Part 18) IS 3025 (Part 18)	0.1 ml to 100 ml 5 mg/l to 500 mg/l 10 mg/l to 2000 mg/l
		Sulphates Chlorides	IS 3025 (Part 24) IS 3025 (Part 32)	10 mg/l to 500 mg/l 10 mg/l to 5000 mg/l

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POLLUTION & EI	NVIRONMENT		
Waste Water (Effluents/ Sewage)	Oil & Grease	SOP Section-Chem/ 01/06/11 Issue no-01 Issue date-01.04.2012	0.1 mg/l to 250mg/l
	B.O.D pH	IS 3025:(Part 44) IS 3025:(Part 11)	5 mg/l to 1000mg/l 1 mg/l to 300mg/l 2 to 14
ATMOSPHERIC I	POLLUTION		
Ambient Air	1. PM ₁₀	IS 5182 (Part 23)2006 (Gravimetic Method) RA 2017	10 μg/m³ to1000μg/m³
	PM _{2.5}	SOP-Chem/01/09/02 Issue dtd: 01.04.2016 Issue No00 Guideline volume 1 (Gravimetric Method)	10 µg/m³ to 300µg/m³
	NO ₂	IS 5182 (Part 6)	6 μg/m ³ to 200 μg/m ³
	SO ₂	IS 5182 (Part 2)	6 μg/m³ to 100 μg/m³
	NH ₃	SOP-Chem/01/09/06 Issue dtd: 01.04.2016 Issue No00 Indophenols Method Guideline Volume 1	20 μg/m³ to 500 μg/m³
Stack Emission	PM	IS 11255(Part 1)	10 µg/m³ to 500µg/m³
	SO ₂	IS 11255 (Part 2)	5 mg/m³ to 500 mg/m³
	NO ₂	IS 11255 (Part 7)	10 mg/m³to 500mg/m³
	POLLUTION & EI Waste Water (Effluents/ Sewage) ATMOSPHERIC I	Naterial of Test	Material of Test against which tests are performed

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3.	Fugitive emission	CO	IS 13270 By Orsat App.	0.1 % to 10%
		CO ₂	IS 13270 By Orsat App.	0.1% to 10%
		Oxygen(O ₂)	IS 13270 By Orsat App.	1% to 21 %
4.	Ambient Noise level(excluding vibration)	Noise Level Leq dB (A)	IS 9876	30 to 100 dB
5.	Source Noise level(excluding vibration)	Noise Level & Source	IS 4758	30 to 120 dB
VII.	HAZARDOUS & I	RESTRICTED CHEMICALS		
1.	Safety of Toy	Migration of Certain Element Sb As Ba Cd Cr Pb Hg Se	IS 9873 (Part-3) ISO 8124-3	1mg/kg to 1000mg/kg 1mg/kg to 1000mg/kg
2.	Safety of Toy Requirement	Taste and smell	IS 9873 (Part-7) ISO 8124-7 CL. 4.6	Qualitative
	and Test method for finger paints	pH	IS 9873 (Part-7) ISO 8124-7 CL. 4.7	1 to 10

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SI.	Product (s) / Material of Test	Specific Test Performed	Test Method / Standard against which tests are performed	Range of Testing / Limits of Detection
		MECHA	NICAL TESTING	
I.	MECHANICAL PI	ROPERTIES OF METALS		
1.	Ferrous Material	Tensile Strength	IS 1608	100 to 800 N/mm ² Load range: 20 to 600 kN
	TMT Structural	Yield/ Proof Strength	IS 1608	100 to 800 N/mm ² Load range: 20 to 600 kN
	Steel, Pipe	Elongation Mass	IS 1608 IS 1786	2% to 100% 0.025 kg to 30 kg
		Bend Test	IS 1599	Mandrel dia 12, 20, 24, 30, 40, 50, 60,84, 100, 140, 175 mm
		Rebend Test	IS 1786	Mandrel dia 12, 20, 24, 30, 40, 50, 60, 84, 100, 140, 17 5mm
		Rib Area TMT (a) Mean Projected rib area (mm²/mm) (b) Mean Projected transverse ribs (mm²/mm)	IS 1786	0.32 mm ² to 5.44 mm ²
2.	Ferrous Material (Pipe)	Dimension Diameter Thickness Flattening Test	IS 1239 (Part 1) IS 1239 (Part 1) IS 2328	5 to 150 mm 0.2 to 20 mm Visual
3.	Ferrous Material (Welded Material)	Face Bend & Root Bend	IS 3600 (Part 5)	Qualitative

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SI.	Product (s) / Material of Test	Specific Test Performed	Test Method / Standard against which tests are performed	Range of Testing / Limits of Detection
4.	Ferrous	Depth of Section	IS 4923	25 to 180
	Material	Width of Section	IS 4923	25 to 180
	(Hollow	Thickness	IS 4923	20 to 100
	Section/Tube)	Tensile Strength	IS 1608	100 to 800 N/mm ²
		_		Load Range 20 to 600 kN
		Yield Stress	IS 1608	100 to 800 N/mm2
				Load Range 20 to 600 kN
		Elongation	IS 4923	2% to 100%
II.	BUILDING MATE	ERIALS		
1.	Bricks	Water absorption	IS 3495 (Part 2)	0.5 to 50%
		Dimensions	IS 1077	L 1200 mm to 5000mm
				B1000 mm to 3000mm
				H 500 mm to 2000mm
		Efflorescence	IS 3495 (Part 3)	Qualitative
		Compressive Strength	IS 3495 (Part 1)	4 N/mm² to 35 N/mm²
2.	Pre-casted,	Visual Inspection	IS 15658	Qualitative
	C.C block (Paver Block)	Dimension	IS 15658	50 mm to 600 mm
	(Pavel Block)	Length Width		50 mm to 600 mm
		Thickness		50 mm to 200 mm
		Water Absorption	IS 15658	2 %to 20%
		Abrasion Resistance	IS 15658	0 to 10 mm
		Compressive Strength	IS 15658	5 N/mm ₂ to100 N/mm ₂
3.	Pre-casted C.C	Dimension	IS 2185 (Part 1)	100 to 500 mm
	block	Density	IS 2185 (Part 1)	1000 kg/m³ to 3000 kg/m³
	(Hollow and	Water Absorption	IS 2185 (Part 1)	1% to 10%
	Solid Concrete	Drying Shrinkage	IS 2185 (Part 1)	0.01% to 1%
	Block)	Compressive Strength	IS 2185 (Part 1)	2 N/mm² to 20 N/mm²

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4.	Fine Aggregates	Sieve Analysis	IS 2386 (Part 3)	0.150 mm to 10 mm
		Water absorption	IS 2386 (Part 3)	0.01% to 5%
		Specific Gravity	IS 2386 (Part 3)	2.00 to 3.40
		Deleterious Material (I)Material Finer than 75 micron	IS 2386 (Part 1)	0.1% to 20%
		(ii) Coal & lignite	IS 2386 (Part 2)	0.1% to 5%
		(iii) Clay lump	IS 2386 (Part 2)	0.1% to 20%
		Soundness (Na ₂ SO ₄)	IS 2386 (Part 5)	0.1% to 20%
		Bulk Density	IS 2386 (Part 3)	1.0 kg/l to 3.0 kg/l
		Organic Impurity	IS 2386 (Part 2)	Qualitative
5.	Coarse	Sieve Analysis	IS 2386 (Part 1)	0 to 100%
	Aggregate	Elongation Index	IS 2386 (Part 1)	1% to 60%
		Flakiness Index	IS 2386 (Part 1)	1% to 60%
		Water absorption	IS 2386 (Part 3)	0.01% to 5%
		Specific Gravity	IS 2386 (Part 3)	2.00 to 3.40
		Impact Value	IS 2386 (Part 4)	5% to 60%
		Crushing Value	IS 2386 (Part 4)	5% to 60%
		10% Fine Value	IS 2386 (Part 4)	10 to 60 (Ton)
		Deleterious material		
		(I) Material Finer than 75 micron	IS 2386 (Part 1)	0.1% to 20%
		(ii) Coal & lignite	IS 2386 (Part 2)	0.1% to 5%
		(iii) Clay lump	IS 2386 (Part 2)	0.1% to 20%
		Soundness (Na ₂ SO ₄)	IS 2386 (Part 5)	0.1% to 20%
		Abrasion Value	IS 2386 (Part 4)	0.1% to 60%
		Bulk Density	IS 2386 (Part 3)	1.0 kg/l to 3.0 kg/l
		Organic Impurity	IS 2386 (Part 2)	Qualitative
6.	Concrete	Compressive Strength	IS 516	5 Mpa to 80 Mpa
	(Hardened	Split Tensile Strength	IS 5816	0.1 N/mm ² to 20 N/mm ²
	concrete)	Permeability Test	DIN 1048 (Part 5)	0.1 mm to 25 mm

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7.	Admixture	Water Content	IS 9103	0.1% to 90%
••		Time of setting	IS 8142	15 minute to 1200 minute
		Compressive strength	IS 516	5 N/mm² to 80 N/mm²
		Length change	IS 1199	0.001% to 1%
		Slump	IS 1199	25 mm to 200mm
		Flexural Strength	IS 516	1 N/mm² to 7 N/mm²
8.	Cement	Fineness	IS 4031 (Part 2)	150 m²/kg to 500 m²/kg
	(OPC/PPC	Soundness		
		I. Le-chatlier	IS 4031 (Part 3)	0.5 mm to 40 mm
		II. Autoclave	IS 4031 (Part -3)	0.01% to 5.0%
		Consistency	IS 4031 (Part 4)	10% to 50%
		Initial Setting Time	IS 4031 (Part -5)	15 to 200 min.
		Final Setting Time	IS 4031 (Part -5)	15 to 600 min.
		Compressive Strength	IS 4031 (Part -6)	1 N/mm ² to 80 N/mm ²
9.	Fly Ash	Fineness	IS 4031 (Part 2)	150 m ² /kg to 500 m ² /kg
	•	Com. Strength	IS 1727	5 N/mm ² to 40 N/mm ²
		Soundness(Autoclave)	IS 1727	0.01% to 2%
10.	Micro Silica	Material Retain on 45 micron IS sieve	IS 1727	1% to 25%
11.	Ceramic Tile	Water absorption	IS 13630 (Part 2)	0.01% to 20%
		Breaking Strength	IS 13630 (Part 6)	10 N to 5000 N
		Modules of Rupture	IS 13630 (Part 6)	5 N/mm² to 60 N/mm²
		Hardness	IS 13630 (Part 13)	1 to 9 mhos scale
		Resistance to stain	IS 13630 (Part 7)	Qualitative
		Resistance to household	IS 13630 (Part 8)	Qualitative
		chemical		
12.	Cement	Wet Transverse Strength	IS 1237	0.1 N/m ² to 20 N/m ²
	Concrete tile	Water absorption	IS 13801 IS 1237	2% to 25%
		Straightness	IS 13801 IS 1237	Upto 1.0 mm

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		Parpendicular	IS 13801 IS 1237	01 mm to 1.0 mm
		Thickness	IS 13801 IS 1237	5 mm to 50 mm
		Resistance to Wear	IS 13801 IS 1237	0.1 mm to 20 mm
		Flatness	IS 13801 IS 1237	01 mm to 1 mm
13.	Bitumen	Penetration	IS 1203	10 mm to 400 mm
	(Bitumen &	Softing Point	IS 1205	10°C to 200°C
	Bitumen	Flash Point	IS 1209	15°C to 400°C
	Product)	Binder content	IS 1209 IRC (SP11) APPENDEX 5	1% to 15%
14.	Stones	Water Absorption	IS 1124	0.02% to 0.50%
	(Sand Stone/	Compressive Strength	IS 1121 (Part 1)	500 kg/cm ² to 2500 kg/cm ²
	Marble, Kota	Specific Gravity	IS 1124	1 to 3
	Stone)	Resistance to wear	IS 1706	0.1 mm to 10 mm
III.	SOIL & ROCK			
1.	Soil, Rock,	Free Swell Index	IS 2720 (Part 40)	Upto 600 %
	GSB & WMM	Heavy Compaction (OMC & MDD)	IS 2720 (Part 8)	MDD 1 g/cc to 3 g/cc OMC 1% to 20%
		Plastic limit	IS 2720 (Part 5)	Upto 80%
		Liquid limit	IS 2720 (Part 5)	Upto 80%
		C.B.R	IS 2720 (Part 16)	0.5% to 30%
		Particle Size Distribution	IS 2720 (Part 4)	0.075 mm to 40 mm
		Direct Shear Test (C & Ø Value)	IS 2720 (Part 13)	C to 0.10 kg/cm ² to 0.90 kg/cm ² Ø -15° to 45°

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2.	Bentonite	Marsh Viscosity	ASTM-D 6910 M-09	10 Sec to 100 Sec
		Liquid limit	IS 2720 (Part 5)	Upto 80%
		Sand content	IS 6186	0.1 to 10%
IV.	TOY AND SIMILA	R PRODUCT		
1.	Toys- Safety aspects related	Small Parts Test	IS 9873 (Part 1) Cl. 5.2, ISO 8124 (Part 1)	Qualitative
	to Mechanical and Physical	Shape and Size	IS 9873 (Part 1) Cl. 5.3, ISO 8124 (Part 1)	Qualitative
	properties	Small Balls Test	IS 9873 (Part 1) Cl. 5.4, ISO 8124 (Part 1)	Qualitative
		Pompoms	IS 9873 (Part 1) Cl. 5.5, ISO 8124 (Part 1)	Qualitative
		Pre-school play figures	IS 9873 (Part 1) Cl. 5.6, ISO 8124 (Part 1)	Qualitative
		Accessibility of Part or component	IS 9873 (Part 1) Cl. 5.7, ISO 8124 (Part 1)	Qualitative
		Sharp-Edge Test	IS 9873 (Part 1) Cl. 5.8, ISO 8124 (Part 1)	Qualitative
		Kinetic energy and Wall Impact Test	IS 9873 (Part 1) Cl. 5.15 ISO 8124 (Part 1)	1 J/m² to 5000 J/m²
		Free-wheeling Facility and Brake performance Test	IS 9873 (Part 1) Cl. 5.16 ISO 8124 (Part 1)	Qualitative
		Folding or Sliding Mechanisms	IS 9873 (Part 1) Cl. 5.22 ISO 8124 (Part 1)	Qualitative
		Drop Test	IS 9873 (Part 1) Cl. 5.24.2 ISO 8124 (Part 1)	Qualitative
		Tension Test	IS 9873 (Part 1) Cl. 5.24.6 ISO 8124 (Part 1)	Qualitative
•••••		Compression test	IS 9873 (Part 1) Cl. 5.24.7 ISO 8124 (Part 1)	Qualitative

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		Flexure Test	IS 9873 (Part 1) Cl. 5.24.8 ISO 8124 (Part 1)	Qualitative
		Static Strength for toys scooters	IS 9873 (Part 1) Cl. 5.26 ISO 8124 (Part 1)	Qualitative
		Impact test for Magnets	IS 9873 (Part 1) Cl. 5.33 ISO 8124 (Part 1)	Qualitative
		Soaking test for Magnet	IS 9873 (Part 1) Cl. 5.34 ISO 8124 (Part 1)	Qualitative
		Projectile Range	IS 9873 (Part 1) Cl. 5.35 ISO 8124 (Part 1)	Qualitative
		Tip assessment of rigid projectiles	IS 9873 (Part 1) Cl. 5.36 ISO 8124 (Part 1)	Qualitative
		Length of Suction cup projectiles	IS 9873 (Part 1) Cl. 5.37 ISO 8124 (Part 1)	10 mm to 300 mm
2.	Safety of Toys Swings, Slides	Maximum Height	IS 9873 (Part 4) Cl. 4.1 ISO 8124 (Part 4)	Upto 3000 mm
	& Similar activity toys for Indoor & Outdoor Family	Stability	IS 9873 (Part 4) Cl. 6.1.1 Cl. 6.1.3 Cl. 6.1.5 ISO 8124 (Part 4)	Qualitative
	Domestic Use	Static Strength	IS 9873 (Part 4) Cl. 6.2, ISO 8124 (Part 4)	Qualitative
		Head and neck entrapment	IS 9873 (Part 4) Cl.6.5, ISO 8124 (Part 4)	Qualitative
		Toggle Test	IS 9873 (Part 4) Cl.6.6, ISO 8124 (Part 4)	Qualitative
		Protrusions	IS 9873 (Part 4) Cl.6.7, ISO 8124 (Part 4)	Qualitative
		Durability test for suspension connectors and means of suspensions	IS 9873 (Part 4) Cl.6.8, ISO 8124 (Part 4)	Qualitative

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