

Laboratory	National Testing Laboratory Pvt. Ltd., B-265, Mangolpuri Industrial Area, Phase-1, Delhi		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	21.05.2014
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	BUILDING MATERIAL			
1.	Cement (OPC, PPC, Portland Slag Cement, Clinker)	SiO ₂	IS:4032-1985, RA 2009	5.0– 30%
		Loss on Ignition	IS:4032-1985, RA 2009	0.5 – 10 %
		Al ₂ O ₃	IS:4032-1985, RA 2009	0.5 – 10 %
		Fe ₂ O ₃	IS:4032-1985, RA 2009	0.5 – 10 %
		CaO	IS:4032-1985, RA 2009	1.0 – 70 %
		MgO	IS:4032-1985, RA 2009	0.5 – 10 %
		So ₃	IS:4032-1985, RA 2009	0.1 – 10 %
		Insoluble Residue	IS:4032-1985, RA 2009	0.5 – 40 %
		Total Chloride	IS:4032:1985, RA 2009	0.001 – 0.5 %
		Sodium Oxide(Na ₂ O)	IS:4032-1985, RA 2009	0.05 – 5 %
		Potassium Oxide(K ₂ O)	IS:4032-1985, RA 2009	0.05 – 5 %
2.	Pozollana Material (fly ash)	SiO ₂	IS:1727-1967, RA 2008	10 – 80 %
		Loss on Ignition	IS:1727-1967, RA 2008	0.5 – 10 %
		Al ₂ O ₃	IS:1727-1967, RA 2008	0.5 – 20 %
		Fe ₂ O ₃	IS:1727-1967, RA 2008	0.5 – 10 %

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		CaO	IS:1727-1967, RA 2008	0.5 – 5 %
		MgO	IS:1727-1967, RA 2008	2.5 – 7.5 %
		So ₃	IS:1727-1967, RA 2008	0.1 – 6 %
		Reactive Silica	IS:4032:1985	5.0 – 50 %
		Total Chloride	IS:12423-1988, RA 2009	0.01 - 0.5 %
		Sodium Oxide(Na ₂ O)	IS:1727-1967, RA 2009	0.05 – 4.5 %
		Potassium Oxide(K ₂ O)	IS:1727-1967, RA 2008	0.05 – 4.5 %
		pH	IS:9103-1999, RA 2008	1-12
		Dry Material content	IS:9103-1999, RA 2008	5-50 %
		Ash Content	IS:9103-1999, RA 2008	0.1-30 %
3.	Concrete admixture	Density	IS:9103-1999, RA 2008	0.8-1.5 gm/cc
		Chloride ion content	IS:6925-1973, RA 2008 Cl-4	0.05-0.5 %
		Chloride	BS:1881(Pt-124)-1988 BS:812(Pt-117)-1988	0.001 – 0.5 %
		Sulphate	BS:1881(Pt-124)-1988 BS:812(Pt-118)-1988	0.01 – 10 %
4.	Hardened Concrete and Aggregates			

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5.	Micro Silica	Sodium Oxide	BS:1881(Pt-124)-1988	0.05 – 5 %
		Potassium Oxide	BS:1881(Pt-124)-1988	0.05 – 5 %
		Moisture	IS:15388-2003, RA 2012	0.1 – 10.0 %
		Loss on Ignition	IS:1727-1967, RA 2008	0.5 – 10 %
		SiO ₂	IS:1727-1967, RA 2008	5.0 – 100.0 %
		Total Alkalies (Na ₂ O)	IS:1727-1967, RA 2008	0.05 – 4.5 %
II. ORES & MINERALS				
1.	Lime Stone/ Dolomite	SiO ₂	IS:1760(Pt-2)-1991, RA 2006	0.5 – 20.0 %
		Al ₂ O ₃	IS:1760(Pt-3)-1992, RA 2006	0.2 – 2.0 %
		Fe ₂ O ₃	IS:1760(Pt-3)-1992, RA 2006	0.2 – 2.0 %
		CaO	IS:1760(Pt-3)-1992, RA 2006	0.5 – 55.0 %
		MgO	IS:1760(Pt-3)-1992, RA 2006	0.2 – 52.0 %
		Cl	IS:1760(Pt-5)-1991, RA 2006	0.002 – 0.1 %
2.	Iron Ore	SiO ₂	IS:1493(Pt-1)-1981, RA 2006	0.5 – 20.0 %
		Al ₂ O ₃	IS:1493(Pt-4)-1988, RA 2006	0.1 – 5.0 %
		Fe ₂ O ₃	IS:1493(Pt-1)-1981, RA 2006	5.0 – 90.0 %

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3.	Iron Ore	TiO ₂	IS:1493(Pt-3)-1987, RA 2006	0.05 – 5.0 %
		CaO	IS:1493(Pt-3)-1987, RA 2006	0.01 – 10.0 %
		MgO	IS:1493(Pt-3)-1987, RA 2006	0.01 – 10.0 %
	Fire bricks & Abrasive Powder	SiO ₂	IS:12107(Pt-2)-1987, RA 2006	10 – 50 %
		Al ₂ O ₃	IS:12107(Pt-3)-1987, RA 2006 IS:9700 – 1991, RA 2010	5.0 – 98 %
		Fe ₂ O ₃	IS:12107(Pt-6)-1987, RA 2006	0.5 – 10 %
		TiO ₂	IS:12107(Pt-5)-1987, RA 2006	0.2 – 3 %
		CaO	IS:12107(Pt-8)-1987, RA 2006	0.1 – 2 %
		MgO	IS:12107(Pt-8)-1987, RA 2006	0.1 – 2 %
		Na ₂ O	IS:12107(Pt-9)-1987, RA 2006	0.05 – 3 %
		K ₂ O	IS:12107(Pt-9)-1987, RA 2006	0.05 – 2 %
		Moisture	IS:9700 – 1991, RA 2010	0.1 – 5.0 %
		Loss on ignition	IS:9700 – 1991, RA 2010	0.1 – 10.0 %

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III. METAL & ALLOYS				
1.	Ferrous (Low Alloys Steel, Stainless steel)	Carbon	IS:228(Pt-1)-1987, RA 2008 ASTM E-415-2008 ASTM E-1086-2008	0.020 - 0.80 % 0.020 – 0.92% 0.012 – 0.25%
		Sulphur	IS:228(Pt-9)-1989, RA 2009 ASTM E-415-2008 ASTM E-1086-2008	0.010 - 0.5 % 0.002 - 0.035 % 0.005 – 0.035%
		Silicon	IS:228(Pt-8)-1989, RA 2009 ASTM E-415-2008 ASTM E-1086-2008	0.05-2.0 % 0.02 – 1.05 % 0.40 – 1.15 %
		Manganese	IS:228(Pt-2)-1987, RA 2008 ASTM E-415-2008 ASTM E-1086-2008	0.10-3.0 % 0.12 – 1.70 % 0.70 – 1.45 %
		Phosphorus	IS:228(Pt-3)-1987, RA 2008 ASTM E-415-2008 ASTM E-1086-2008	0.01-0.50 % 0.003 - 0.067 % 0.010 – 0.035 %
		Nickel	IS:228(Pt-5)-1987, RA 2009 ASTM E-415-2008 ASTM E-1086-2008	0.05-20.0 % 0.030 – 1.65 % 1.75 – 11.25 %
		Molybdenum	IS:228(Pt-7)-1990, RA 2012 ASTM E-415-2008 ASTM E-1086-2008	0.05 - 5.0 % 0.01 – 0.21 % 0.60 - 3.05 %

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	Chromium		IS:228(Pt-6)-1987, RA 2009 ASTM E-415-2008 ASTM E-1086-2008	0.1 - 20.0 % 0.02 – 1.37 % 14.25 - 20.0 %
	Vanadium		ASTM E-415-2008 ASTM E-1086-2008	0.01 – 0.22 % 0.02 - 0.038 %
	Copper		IS:228(Pt-15)-1992, RA 2009 ASTM E-415-2008 ASTM E-1086-2008	0.05 - 2.0 % 0.015 – 0.40 % 0.018 – 0.03 %
	Aluminium		ASTM E-353 Cl.-71 , Volume -03.05 ASTM E-415-2008	0.01 – 0.50 % 0.001 – 0.085 %
	Titanium		ASTM E-353 Cl.-231, Volume – 03.05 ASTM E-415-2008	0.001 – 0.50 % 0.005 – 0.043 %
	Nitrogen		IS:228(Pt-19)-1987, RA 2010 IS:228(Pt-23)-2003 ASTM E-415-2008	0.001-0.05 % 0.005 - 0.012 % 0.005 – 0.012%
	Boron		ASTM E-415-2008	0.0005- 0.007 %
	Niobium		ASTM E-415-2008 ASTM E-1086-2008	0.005 – 0.055 % 0.001 - 1.10 %
	Cobalt		ASTM E-415-2008 ASTM E-1086-2008	0.013 – 0.046 % 0.016 – 0.022 %
	Tungsten		ASTM E-415-2008	0.01 – 0.045 %

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2.	Nonferrous (a) Cu & Its Alloy	Copper	IS:440-1964 RA 2006 Cl-4.0 IS:3685-1966 RA 2006 Cl-5.0 IS:4027(Pt-1)-1987, RA 2006	50.- 100 %
		Aluminium	IS:440-1964 RA 2006 Cl-4.0 IS:3685-1966 RA 2006 Cl-12.0 IS:4027(Pt-9)-1991 RA 2007 BS EN 15079 – 2007	0.005 - 2.00 % 0.001 – 0.10 %
		Lead	IS:440-1964 RA 2006 Cl-9.0 IS:3685-1966 RA 2006 Cl-5.0 IS:4027(Pt-1)-1987, RA 2006 BS EN 15079 – 2007	0.005 – 10.0 % 0.010 – 6.70 %
		Tin	IS:440-1964 RA 2006 Cl-14.0 IS:3685-1966 RA 2006 Cl-6.0 IS:4027(Pt-5)-1987 RA 2006 BS EN 15079 – 2007	0.001 – 10.0 % 0.010 – 5.0 %
		Iron	IS:440-1964 RA 2006 Cl-8.0 IS:3685-1966 RA 2006 Cl-10.0 IS:4027(Pt-8)-1991 RA 2007 BS EN 15079 – 2007	0.01 – 5.0 % 0.01 – 0.15 %
		Nickel	IS:440-1964 RA 2006 Cl-10.0 IS:3685-1966 RA 2006 Cl-9.0 IS:4027(Pt-4)-1987 RA 2006 BS EN 15079 – 2007	0.01 – 10.0 % 0.010 – 2.15 %

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	Antimony		IS:440-1964 RA 2006 Cl-5.0 IS:4027(Pt-7)-1990 RA 2007 BS EN 15079 – 2007	0.005 – 1.0 % 0.010 – 0.15 %
	Arsenic		IS:440-1964, RA 2006 Cl-5.0 BS EN 15079 - 2007	0.010 – 0.50 % 0.010 – 0.12 %
	Bismuth		IS:440-1964, RA 2006 Cl-7.0 BS EN 15079 - 2007	0.05 – 0.20 % 0.010 – 0.060 %
	Manganese		IS:3685-1966, RA 2006 Cl-7.0 IS:4027(Pt-2)-1987, RA 2006 BS EN 15079 - 2007	0.05 – 5.0 % 0.001 – 0.10 %
	Silicon		IS:3685-1966 RA 2006 Cl-11.0 IS:4027(Pt-10)-2000, RA 2006 BS EN 15079 - 2007	0.005 – 0.50 % 0.010 – 0.10 %
	Silver		BS EN 15079 - 2007	0.010 – 0.05 %
	Zinc		IS:3685-1966 RA 2006 Cl-13.0 IS:4027(Pt-6)-1987, RA 2006 BS EN 15079 – 2007	0.01 – 50.0 % 0.01 – 37.0 %
	Phosphorus		IS:440-1964, RA 2006 Cl-14.0 IS:3685-1966, RA 2006 Cl-6.0	0.01 – 0.50 %

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(b) Al & Its Alloy	Silicon		IS:504 (Pt-1)-2002 RA 2005 ASTM E-1251-2011/AAS	0.05 – 10.0 % 0.06 – 10.0 %
	Titanium		IS:504(Pt-11)-2002 RA 2005 ASTM E-1251-2011/AAS	0.01 – 1.0 % 0.025 – 0.15 %
	Magnesium		IS:504 (Pt-6)-2002 RA 2005 ASTM E-1251-2011/AAS	0.05 – 10 % 0.35 – 2.50 %
	Manganese		IS:504 (Pt-5)-2002 RA 2005 ASTM E-1251-2011/AAS	0.05 – 5.0 % 0.025 – 0.35 %
	Chromium		IS:504 (Pt-8)-2002 RA 2005 ASTM E-1251-2011/AAS	0.05 – 5.0 % 0.025 – 0.25 %
	Zinc		IS:504 (Pt-4)-2002 RA 2005 ASTM E-1251-2011/AAS	0.01 – 10 % 0.025 – 6.0 %
	Lead		IS:504 (Pt-1)-2002 RA 2005 ASTM E-1251-2011/AAS	0.0005 – 1.0 % 0.004 – 0.10 %
	Tin		IS:504 (Pt-9)-2002 RA 2005	0.01 – 1.0 %
	Iron		IS:504(Pt-2)-2002 RA 2005 ASTM E-1251-2011/AAS	0.01 – 5.0 % 0.15 – 0.65 %
	Nickel		IS:504(Pt-7)-2002 RA 2005 ASTM E-1251-2011/AAS	0.01 – 5.0 % 0.004 – 0.10 %
	Copper		IS:504(Pt-3)-2002 RA 2005 ASTM E-1251-2011/AAS	0.01 – 5.0 % 0.04 – 2.75 %

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		Vanadium	IS:504(Pt-12)-2002 RA 2005 ASTM E-1251-2011	0.005 – 0.02 % 0.005 – 0.050 %
		Antimony	IS:504(Pt-10)-2002 RA 2005	0.001 – 0.30 %
	(c) Ferro Alloy (Ferro Silicon)	Carbon	IS:1559 (Pt-2):1982, RA 2007	0.1 – 5.00 %
		Sulphur	IS:1559 (Pt-3):1982, RA 2007	0.01 – 5.0 %
		Silicon	IS:1559 (Pt-1):1988, RA 2009	40 - 80 %
		Manganese	IS:1559 (Pt-7):1982, RA 2007	0.1 – 1.0 %
		Phosphorus	IS:1559 (Pt-4):1982, RA 2007	0.01 – 0.20 %

IV. METALLIC COATING AND TREATMENT SOLUTIONS

1. Metallic Coating	Anodic Coating	IS:5523-1983, RA 2010	5-40 micron
	Powder Coating	IS:101(Pt-3/Sec-2)-1989 RA 2009 IS:6012-1992 RA 2010	10.0 – 200 micron
	Zinc Coating	IS:6745-1972 RA 2010	20.0- 750 g/m ²
	Uniformity of Zinc Coating	IS:2633-1986 RA 2010	Qualitative
	Thickness of Zinc Coating	IS:1573-1986 RA 2010	1.0 – 250 micron
	Adhesion Test	IS:2629-1985 RA 2010	Qualitative

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V.	WATER			
1.	Drinking Water	Colour	IS:3025(Pt-4)-1983 RA 2012 Platinum Cobalt(visual)	0 – 50 Hazen Units
		Odour	IS:3025 (Pt-5)-1983 RA 2012	Qualitative
		Taste	IS:3025 (Pt-7 & 8)-1984 RA 2012	Qualitative
		Turbidity	IS:3025 (Pt-10)-1984 RA 2012	0 – 500 NTU
		Total Dissolved Solid	IS:3025 (Pt-16)-1984 RA 2012	0 – 25000 mg/l
		pH value	IS:3025 (Pt-11)-1983 RA 2012	0.1 – 14.0
		Fluoride	APHA Edition	0.05 – 50 mg/l
		Chloride	IS:3025 (Pt-32)1988 RA 2009	0.5 – 2000 mg/l
		Hardness	IS:3025 (Pt-21)-2009	5 – 1500 mg/l
		Residual Free Chlorine	IS:3025 (Pt-26)-1986 RA 2009	0.1 – 10 mg/l
		Iron	IS:3025 (Pt-53)-2003, RA 2009	0.1 – 100 mg/l
2.	Construction Water	Total Dissolved Solid	IS:3025 (Pt-16)-1984 RA 2012	0 – 10000 mg/l
		Organic Matter	IS:3025 (Pt-18)-1984 RA 2012	0.1 – 2000 mg/l
		Inorganic Matter	IS:3025 (Pt-18)-1984 RA 2012	0.1 – 20000 mg/l

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		Alkalinity(Amount of 0.02N H2SO4 Required to Neutralize 100 ml Sample of water Using Mixed Indicator)	IS:3025 (Pt-23)-1986 RA 2009	0.1- to 50 ml
		Acidity(Amount of 0.02N NaOH Required to Using Phenolphthalein Indicator)	IS:3025 (Pt-23)-1986 RA 2009	0.1- to 50 ml
		Total suspended solid	IS:3025 (Pt-17)-1984 RA 2012	0.1 – 5000 mg/l
		pH value	IS:3025 (Pt-11)-1983 RA 2012	4 - 12
		Chloride	IS:3025 (Pt-32)-1988 RA 2009	0.5 – 5000 mg/l
		Sulphate	IS:3025 (Pt-24)-1986 RA 2009	10 – 200 mg/l
3.	Waste Water	Dissolved Oxygen	IS:3025 (Pt-38)-1989,Reff- 2009	0 – 100 mg/l
		BOD	IS:3025 (Pt-44)-1993, RA 2009	5 – 1000 mg/l
		COD	IS:3025 (Pt-58)-2006, RA 2012	5 – 5000 mg/l
		Oil & Grease	IS:3025 (Pt-39)-1991, RA 2009	5 – 1000 mg/l
		Phosphorus	IS:3025 (Pt-31)-1988, RA 2009	1 – 500 mg/l
		Nitrate Nitrogen	IS:3025 (Pt-34)-1988, RA 2009	0.1 – 1000 mg/l
		Sulphide	IS:3025 (Pt-29)-1986, RA 2009	1 – 1000 mg/l

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		Calcium	IS:3025 (Pt-40)-1991, RA 2009	1 – 1000 mg/l
		Magnesium	IS:3025 (Pt-46)-1994, RA 2009	1 – 1000 mg/l
		Sodium	IS:3025 (Pt-45)-1993, RA 2009	1 – 2000 mg/l
		Potassium	IS:3025 (Pt-45)-1993, RA 2009	1 – 2000 mg/l
VI. RUBBER & SYNTHETIC RUBBER				
1.	Rubber	Ash Content(Filler)	ASTM D 297-2006 IS:3400(Pt-22)-1984, RA 2008	0.01 – 50.0 %
		Polymer Identification	ASTM D 297/-93(2006) ASTM D 3677/90(1995) IS:3400(Pt-22)-1984, RA 2008	Qualitative

-X-X-X-X-X-X-X-X-X-X-X-X-