Laboratory	**Omega Consultant Services, Testing Laboratory, 256 A, M.G. Road, Purbasan, Thakurpukur, Kolkata, West Bengal**			
Accreditation Standard	**ISO/IEC 17025: 2005**			
Field	**Chemical Testing**	**Issue Date**	**03.02.2014**	
Certificate Number	**T-2140**	**Valid Until**	**02.02.2016**	
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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. METALS & ALLOYS				
1.	**Ferrous metals (Plain Carbon Steel)**	Carbon	IS:228 (Pt. 1) – 1987 Reaffirmed 2002	0.05% to 1.00%
		Manganese	IS:228 (Pt. 2) – 1987 Reaffirmed 2002	0.10% to 1.50%
		Silicon	IS:228 (Pt. 8) – 1989 Reaffirmed 2004	0.05% to 2.00 %
		Sulphur	IS:228 (Pt. 9) – 1989 Reaffirmed 2004	0.01% to 0.10 %
		Phosphorous	IS:228 (Pt. 3) – 1987 Reaffirmed 2002	0.01% to 0.15 %
2.	**Ferrous metals (Low & high alloy steel , Mild Steel, Stainless Steel , Cast iron & pig iron)**	Carbon	IS:228 (Pt. 1) – 1987 Reaffirmed 2002 & IS:12308 (Pt.-11)-1991 Reaffirmed 2006	0.05% to 4.50%
		Manganese	IS:228 (Pt. 2) – 1987 Reaffirmed 2002 IS:12308 (Pt-10)-1991 Reaffirmed 2006	0.10% to 2.00%
		Silicon	IS:228 (Pt. 8) – 1989 Reaffirmed 2004 & IS:12308 (Pt-6)-1991 Reaffirmed 2006	0.05% to 2.00 %

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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
	Ferrous metals (Low & high alloy steel , Mild Steel, Stainless Steel , Cast iron & pig iron)	Sulphur	IS:228 (Pt. 9) – 1989 Reaffirmed 2004	0.01% to 0.25 %
		Phosphorous	IS:228 (Pt. 3) – 1987 Reaffirmed 2002 & IS:12308 (Pt-5)-1991 Reaffirmed 2006	0.01% to 0.25 %
		Nickel	IS:228 (Pt. 5) – 1987 Reaffirmed 2002 & IS:12308 (Pt-7)-1991 Reaffirmed 2007	0.10% to 20.00 %
		Chromium	IS:228 (Pt. 6) – 1987 Reaffirmed 2002 & IS:12308 (Pt-8)-1997 Reaffirmed 2002	0.10% to 20.00%
II. ORES & MINERALS				
1.	**Iron Ore**	Iron	IS:1493 -1959 Reaffirmed 2001	40% to 70%
		Silica	IS:1493 -1959 Reaffirmed 2001	1% to 15 %
		Alumina	IS:1493 -1959 Reaffirmed 2001 SOP-TP-01	1% to 10 %

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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
III. WATER				
1.	**Water (construction/ Industrial)**	pH Value	IS 3025 (Part 11)- 1983 Reaffirmed: 2002	1 to 14
		Total Dissolved Solids	IS 3025 (Part 16)- 1984 Reaffirmed: 2002	2.0mg/l to2000 mg/l
		Total Suspended Matter	IS 3025 (Part 17)- 1984 Reaffirmed: 2002	2.0mg/l to2000 mg/l
		Acidity: Requirement of 0.02(N) NaOH to neutralize 100ml sample of water, using phenolphthalein as an indicator	IS 3025 (Part 22)- 1986 Reaffirmed: 2003	0.1 ml to 40 ml
		Alkalinity: Requirement of 0.02(N) H_2SO_4 to neutralize 100 ml sample of water, using mixed indicator	IS 3025 (Part 23)- 1986 Reaffirmed: 2003	0.1 ml to 40ml
		Total Organic Matter	IS 3025 (Part 18)- 1984 Reaffirmed: 2002	2.0 mg/l to 200 mg/l
		Total inorganic substances	IS 3025 (Part 18)- 1984 Reaffirmed: 2002	2.0 mg/l to 3000 mg/l

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Water (construction/ Industrial)	Sulphates	IS 3025 (Part 24)- 1986 Reaffirmed: 1992	2.0 mg/l to 400 mg/l
		Chlorides	IS 3025 (Part 32)- 1988 Reaffirmed: 1993	2.0 mg/l to 2000 mg/l
IV. BUILDING MATERIALS				
1.	**Cement - OPC**	Silica	IS: 4032 – 1985	10% to 30 %
		Alumina	Reaffirmed - 2009	1% to 15 %
		Iron Oxide		1% to 15 %
		Magnesia		0.5% to 15 %
		Calcium Oxide		35% to 70 %
		Sulphuric Anhydride		0.5% to 5 %
		Insoluble Residue		0.5% to 10 %
		Loss on ignition		0.5% to 10 %
		Total Chloride		0.01% to 2 %
2.	**Cement - PPC**	Magnesia	IS: 4032 – 1985	1% to 15 %
		Sulphuric Anhydride	Reaffirmed - 2009	0.5% to 5%
		Insoluble Residue		5% to 40%
		Loss on ignition		0.5% to 10 %
3.	**Cement - PSC**	Magnesia (as MgO)	IS: 4032 – 1985	0.5% to 15 %
		SulphurTrioxide (as SO_3)	Reaffirmed - 2009	0.5% to 5 %
		Sulphide Sulphur (as S)		0.1% to 5 %
		Insoluble Residue		0.5% to 10%
		Loss on ignition		0.5% to 10%
		Total Chloride		0.01% to 2%