Chemical Testing

S.No	Group	Sub Group	Test
	Building Material	Aggregate	Water Soluble Sulphate as SO_3
	Building Material	Aggregate	Alkali Aggregate Reactivity- Reduction in Alkalinity
	Building Material	Aggregate	Alkali Aggregates Reactivity- Dissolved Silica
	Building Material	Aggregate	Water Soluble Chloride as Cl
	Building Material	Cement	Alumina as Al_2O_3
	Building Material	Cement	Calcium Oxide as CaO
	Building Material	Cement	Insoluble Residue
	Building Material	Cement	Iron Oxide as Fe_2O_3
	Building Material	Cement	Magnesia as MgO
	Building Material	Cement	Potassium Oxide as K_2O
	Building Material	Cement	Silica as SiO_2
	Building Material	Cement	Sodium Oxide as Na_2O
	Building Material	Cement	SulphateasSO_3
	Building Material	Cement	Total Chloride Content
	Building Material	Cement	Total loss on Ignition
	Building Material	Fly ash	Combined Aluminium Oxide(Al_2O_3)+Iron Oxide(Fe_2O3)
	Building Material	Fly Ash	Magnesium Oxide as MgO
	Building Material	Fly ash	Potassium Oxide as K_20
	Building Material	Fly ash	Reactive Silicca
	Building Material	Fly Ash	Silicon Di oxide(SiO_2)
	Building Material	Fly ash	Sodium Oxide as Na_2O
	Building Material	Fly Ash	Sodium Oxide as Na_2O
	Building Material	Fly ash	Sulphate as (SO_3)
	Building Material	Fly Ash	Total Chloride Content

	Building Material	Fly Ash	Total Loss on Ignition
	Building Material	Lime	Calcium Oxide (CaO)
	Building Material	Lime	Ferric Oxde (Fe_2O_3)& Alumina Oxide(Al_2O_3)
	Building Material	Lime	Insoluble Residue in Hydrochloric acid
	Building Material	Lime	Loss in Ignition
	Building Material	Lime	Magnesium Oxide (MgO)
	Building Material	Lime	Silicon Dioxide(SiO_2)
	Building Material	Admixture	Ash Content
	Building Material	Admixture	Chloride Content
	Building Material	Admixture	Dry Material Content
	Building Material	Admixture	pH Value
	Building Material	Admixture	Relative Density
	Building Material	Silica Fume/Micro Silica	Loss on Ignition
	Building Material	Silica Fume/Micro Silica	Moisture Content
	Building Material	Silica Fume/Micro Silica	Potassium Oxide as K_2O
	Building Material	Silica Fume/Micro Silica	SilicaasSiO2
	Building Material	Silica Fume/Micro Silica	Sodium Oxide as Na_2O

S.No	Group	Sub Group	Test
	Metallic coatings & treatment solutions	MS Steel /Carbon Steel/ Structure Steel	Mass of Zinc Coating
	Metallic coatings & treatment solutions	Zinc Coating on Iron and Steel and other Allied Products	Adhesion Test of Zinc Coating(Pivoted Hammer Test)
	Metallic coatings & treatment solutions	Zinc Coating on Iron and Steel and other Allied Products	Adhesion Test of Zinc Coating (Knife Test)
	Metallic coatings & treatment solutions	Zinc Coating on Iron and Steel and other Allied Products	Uniformity of Zinc coating Thickness
	Metallic coatings & treatment	Zinc Coating on Iron and Steel and other Allied	Visual Examination

	solutions	Products	
	Metals & Alloys	Mild Steel/carbon steel/Low Alloy Steel	Aluminum
	Metals & Alloys	Mild Steel/carbon steel/Low Alloy Steel	Boron
	Metals & Alloys	Mild Steel/carbon steel/Low Alloy Steel	carbon
	Metals & Alloys	Mild Steel/carbon steel/Low Alloy Steel	Carbon
	Metals & Alloys	Mild Steel/carbon steel/Low Alloy Steel	Chromium
	Metals & Alloys	Mild Steel/carbon steel/Low Alloy Steel	Copper
	Metals & Alloys	Mild Steel/carbon steel/Low Alloy Steel	Manganese
	Metals & Alloys	Mild Steel/carbon steel/Low Alloy Steel	Manganese
	Metals & Alloys	Mild Steel/carbon steel/Low Alloy Steel	Molybdenum
	Metals & Alloys	Mild Steel/carbon steel/Low Alloy Steel	Nickel
	Metals & Alloys	Mild Steel/carbon steel/Low Alloy Steel	Niobium
	Metals & Alloys	Mild Steel/carbon steel/Low Alloy Steel	Nitrogen
	Metals & Alloys	Mild Steel/carbon steel/Low Alloy Steel	Phosphorous
	Metals & Alloys	Mild Steel/carbon steel/Low Alloy Steel	Phosphorus
	Metals & Alloys	Mild Steel/carbon steel/Low Alloy Steel	Silicon
	Metals & Alloys	Mild Steel/carbon steel/Low Alloy Steel	Silicon
	Metals & Alloys	Mild Steel/carbon steel/Low Alloy Steel	Sulphur
	Metals & Alloys	Mild Steel/carbon steel/Low Alloy Steel	Sulphur
	Metals & Alloys	Mild Steel/carbon steel/Low Alloy Steel	Titanium
	Metals & Alloys	Mild Steel/carbon steel/Low Alloy Steel	Vanadium
	Metals & Alloys	Stainless Steel	Carbon
	Metals & Alloys	Stainless Steel	Chromium
	Metals & Alloys	Stainless Steel	Manganese
	Metals & Alloys	Stainless Steel	Nickel
	Metals & Alloys	Stainless Steel	Phosphorus
	Metals & Alloys	Stainless Steel	Silicon
	Metals & Alloys	Stainless Steel	Sulphur
	Soil and Rock		

		Soil	Calcium Carbonate
	Soil and Rock	Soil	Organic Matter
	Soil and Rock	Soil	pH Value
	Soil and Rock	Soil	Total Nitrogen including Nitrate Form
	Soil and Rock	Soil	Total Soluble Solids
	Soil and Rock	soil	Total Soluble Sulphates
	Soil and Rock	Soil	Water/Acid Soluble Chlorides
	Water	Water for Construction Purpose	Chloride(as Cl)
	Water	Water for Construction Purpose	Inorganic (Fixed)
	Water	Water for Construction Purpose	Ml of 0.02NH_2SO_4 Required to neutralize 100ml of Water Sample, using Mixed Indicator
	Water	Water for Construction Purpose	Ml of 0.02NNaOH required to neutralize 100ml of Water Sample, using Phenolphthalein Indicator
	Water	Water for Construction Purpose	Organic(Volatile)
	Water	Water for Construction Purpose	pH value
	Water	Water for Construction Purpose	Sulphate (as SO_3)
	Water	Water for Construction Purpose	Total Suspended Solids
	Water	Drinking Water	Calcium as Ca
	Water	Drinking Water	Chloride(as Cl)
	Water	Drinking Water	Chlorine Residual
	Water	Drinking Water	Color
	Water	Drinking Water	Filterable Residue: Total Dissolved Solids
	Water	Drinking Water	Fluoride(as F)
	Water	Drinking Water	Iron as Fe
	Water	Drinking Water	Magnesium as Mg
	Water	Drinking Water	Odour
	Water	Drinking Water	pH Value
	Water	Drinking Water	SulphatesasSO4
	Water	Drinking Water	Taste
	Water	Drinking Water	Total Alkalinity as $CaCO_3$
	Water	Drinking Water	Total Hardness as $CaCO_3$
	Water	Drinking Water	Turbidity

	Water	Waste Water	Ammonia Cal Nitrogen as NH3-N
	Water	Waste Water	Biochemical Oxygen Demand(BOD)
	Water	Waste Water	Chemical Oxygen Demand(COD)
	Water	Waste Water	Chloride As Cl
	Water	Waste Water	Chromium as Cr+6
	Water	Waste Water	Copper as Cu
	Water	Waste Water	Dissolve Oxygen (DO)
	Water	Waste Water	Oil and Grease
	Water	Waste Water	pH Value
	Water	Waste Water	Phosporous as P
	Water	Waste Water	Specific Conductance
	Water	Waste Water	Temperature
	Water	Waste Water	Total Dissolved Solid (Filtrable Residue)
	Water	Waste Water	Total Solid(Dissolved + Suspended)
	Water	Waste Water	Total Suspended Solid