

બા.વ. સ્કા. ન. સ્કા.

જા.ન./એબી / ટેન્ડર / ખા.લે. /

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કાર્યપાલક ઈજનેરની કચેરી,
અમદાવાદ (મા x મ) વિભાગ,
બ્લોક - સી, બીજે માળ,
બહુમાળી ભવન, વસ્ત્રાપુર
અમદાવાદ - ૫૨.

તા. ૩૦/૦૯/૨૦૨૫

પ્રતિ,
રાજકોટ મોટ લેબ સર્વિસીસ,
એન.એચ. ૨૭, તુલસી પાર્ટી પ્લોટ સામે,
જેસીબી શો-રૂમ નજીક, રાજકોટ-૩૬૦૦૦૪

Rajkot Metals Services LLP
"Rajkot Lab" NH 27, Opp
JCB Showroom, Nr. Talip Party
Plot, B/h Perfect Market
Showroom, Vardi, Rajkot

વિષય :- માન્ય લેબોરેટરી તરીકે માન્યતા આપવા બાબત.

સંદર્ભ :- સરકારશ્રીના મા. x મ. વિભાગના પત્ર ક્ર : એલએબી/૧૦૨૦૨૨/૧૮૦૨/સી, તા. ૨૧/૦૧/૨૫

૬૯ - ૩૬૦૦૦૪, India

મહાશય,

ઉપરોક્ત વિષય પરત્વે જયભારત સહ જણાવવાનું કે, આપની લેબોરેટરીની માન્યતાની મુદત તા. ૩૧/૧૨/૨૦૨૪ના રોજ પુર્ણ થયેલ છે. સરકારશ્રી કક્ષાએથી આયોજીત કમિટિની તા. ૨૦/૧૨/૨૦૨૪ના બેઠકના એજન્ડા અન્વયે આપની લેબોરેટરીને જે તારીખ સુધીનું એનએબીએલ સર્ટીફિકેટ મળેલ હોય તે તારીખ (તા. ૦૮/૧૧/૨૦૨૮) અથવા તા. ૩૦/૦૬/૨૦૨૫ અથવા પરીક્ષણ માટેના નવા જીએસટી વગરના ભાવોનું ટેન્ડર મંજૂર થાય તે પૈકી, ત્રણમાંથી જે તારીખ વહેલી પુર્ણ થતી હોય ત્યાં સુધી માન્યતા વધારી આપવા નિર્ણય થયેલ છે.

એનએબીએલ તરફથી આપવામાં આવેલ ટેસ્ટ		સરકારશ્રી તરફથી મંજૂર કરવામાં આવેલ ટેસ્ટ.	
Admixture	Ash content Chloride ion content Dry material content pH Relative density	Admixture	Ash content Chloride ion content Dry material content pH Relative density
Aggregate	Deleterious Material Organic Impurities Soluble Chlorides as Cl Sulphate as SO ₃ (Acid Extra ct)	Aggregate	Deleterious Material Organic Impurities Soluble Chlorides as Cl Sulphate as SO ₃ (Acid Extra ct)
Aggregate, Rock, Stone	Alkali Aggregate Reactivity	Aggregate, Rock, Stone	Alkali Aggregate Reactivity
Cementitious Materials	Alkalies as (K ₂ O) Alkalies as (Na ₂ O) Alumina Oxide (as Al ₂ O ₃) Calcium Oxide as (CaO) Chlorides (As Cl) Insoluble residue Loss on ignition, percent by mass Magnesium oxide (MgO) Silicon Dioxide (As SiO ₂) Sulphur as SO ₃ Iron Oxide (as Fe ₂ O ₃)	Cementitious Materials	Alkalies as (K ₂ O) Alkalies as (Na ₂ O) Alumina Oxide (as Al ₂ O ₃) Calcium Oxide as (CaO) Chlorides (As Cl) Insoluble residue Loss on ignition, percent by mass Magnesium oxide (MgO) Silicon Dioxide (As SiO ₂) Sulphur as SO ₃ Iron Oxide (as Fe ₂ O ₃)
Pozzolanic materials	Alumina Oxide (as Al ₂ O ₃) Calcium Oxide as (CaO) Chlorides (As Cl) Iron Oxide (as Fe ₂ O ₃) Loss on ignition, percent by mass Magnesium oxide (MgO) Sulphur Trioxide (as SO ₃)	Pozzolanic materials	Alumina Oxide (as Al ₂ O ₃) Calcium Oxide as (CaO) Chlorides (As Cl) Iron Oxide (as Fe ₂ O ₃) Loss on ignition, percent by mass Magnesium oxide (MgO) Sulphur Trioxide (as SO ₃)
copper/nickel/chromium or nickel/chromium coatings on steel, zinc alloys, aluminum alloys	Copper-Accelerated Acetic Acid-Salt Spray (Fog) Testing (CASS Test)	copper/nickel/chromium or nickel/chromium coatings on steel, zinc alloys, aluminum alloys	Copper-Accelerated Acetic Acid-Salt Spray (Fog) Testing (CASS Test)
Decorative Chromium Plating on steel or Zinc die-cast base	Acetic Acid-Salt Spray (Fog) Testing (ASS)	Decorative Chromium Plating on steel or Zinc die-cast base	Acetic Acid-Salt Spray (Fog) Testing (ASS)
Electroplated and Anodized aluminum coatings.	Neutral Salt Spray (NSS) Copper accelerated acetic acid salt spray (CASS) test Acetic Acid Salt Spray	Electroplated and Anodized aluminum coatings.	Neutral Salt Spray (NSS) Copper accelerated acetic acid salt spray (CASS) test Acetic Acid Salt Spray

	(ASS)		(ASS)
Metal and their alloys, Metallic Coatings, Conversion Coatings, Anodic Oxide coatings, Organic coatings on metallic materials	Neutral Salt Spray (NSS)	Metal and their alloys, Metallic Coatings, Conversion Coatings, Anodic Oxide coatings, Organic coatings on metallic materials	Neutral Salt Spray (NSS)
Metal and their alloys, Metallic Coatings, Conversion Coatings, Anodic Oxide coatings, Organic coatings on metallic materials, decorative coatings of Copper, Nickel & Chromium or Nickel and Chromium, Anodic Coatings on Aluminium	Corrosion Test in Artificial Atmospheres - salt spray tests (NSS)	Metal and their alloys, Metallic Coatings, Conversion Coatings, Anodic Oxide coatings, Organic coatings on metallic materials, decorative coatings of Copper, Nickel & Chromium or Nickel and Chromium, Anodic Coatings on Aluminium	Corrosion Test in Artificial Atmospheres - salt spray tests (NSS)
Painted Products/Panels/Raw Materials	Neutral Salt Spray Test	Painted Products/Panels/Raw Materials	Neutral Salt Spray Test
Aluminium & its alloys	Bismuth (Bi) Boron (B) Chromium (Cr) Cobalt (Co) Copper (Cu) Gallium (Ga) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Silicon (Si) Ti, Cr, Mn, Fe, Cu, Zn Tin (Sn) Titanium (Ti) Vanadium (V) Zinc (Zn) Zirconium (Zr)	Aluminium & its alloys	Bismuth (Bi) Boron (B) Chromium (Cr) Cobalt (Co) Copper (Cu) Gallium (Ga) Iron (Fe) Lead (Pb) Magnesium (Mg) Manganese (Mn) Nickel (Ni) Silicon (Si) Ti, Cr, Mn, Fe, Cu, Zn Tin (Sn) Titanium (Ti) Vanadium (V) Zinc (Zn) Zirconium (Zr)
Cast Iron & Pig Iron	Aluminum (Al) Carbon (C) Carbon (C) Chromium (Cr) Chromium (Cr) Copper (Cu) Copper (Cu) Manganese (Mn) Manganese (Mn) Molybdenum (Mo) Molybdenum (Mo) Nickel (Ni) Nickel (Ni) Phosphorus (P) Phosphorus (P) Silicon (Si) Silicon (Si) Sulfur (S) Sulfur (S) Tin (Sn) Titanium (Ti) Vanadium (V) Vanadium (V)	Cast Iron & Pig Iron	Aluminum (Al) Carbon (C) Carbon (C) Chromium (Cr) Chromium (Cr) Copper (Cu) Copper (Cu) Manganese (Mn) Manganese (Mn) Molybdenum (Mo) Molybdenum (Mo) Nickel (Ni) Nickel (Ni) Phosphorus (P) Phosphorus (P) Silicon (Si) Silicon (Si) Sulfur (S) Sulfur (S) Tin (Sn) Titanium (Ti) Vanadium (V) Vanadium (V)
Cobalt & its alloys	Co, Cr, Ni, Mn, W, Fe Aluminum (Al) Antimony (Sb) Arsenic (As) Bismuth (Bi) Boron (B) Cadmium (Cd) Cobalt (Co) Iron (Fe) Lead (Pb) Manganese (Mn) Nickel (Ni) Phosphorus (P) Silicon (Si) Silver (Ag) Sulfur (S) Tellurium (Te) Tin (Sn) Zinc (Zn)	Cobalt & its alloys	Co, Cr, Ni, Mn, W, Fe Aluminum (Al) Antimony (Sb) Arsenic (As) Bismuth (Bi) Boron (B) Cadmium (Cd) Cobalt (Co) Iron (Fe) Lead (Pb) Manganese (Mn) Nickel (Ni) Phosphorus (P) Silicon (Si) Silver (Ag) Sulfur (S) Tellurium (Te) Tin (Sn) Zinc (Zn)
Iron & its alloys	Mn, Cr, Ni, Mo, Cu, Ti, Nb, Pb, Sn, Sb, V, Fe, W, Co	Iron & its alloys	Mn, Cr, Ni, Mo, Cu, Ti, Nb, Pb, Sn, Sb, V, Fe, W, Co
Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Aluminum (Al) Boron (B) Carbon (C) Chromium (Cr) Cobalt (Co) Copper (Cu)	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Aluminum (Al) Boron (B) Carbon (C) Chromium (Cr) Cobalt (Co) Copper (Cu)

	Magnesium(Mg) Manganese(Mn) Molybdenum(Mo) Nickel(Ni) Phosphorus(P) Silicon(Si) Sulfur(S) Tin(Sn) Vanadium(V) Antimony(Sb) Arsenic(As) Calcium (Ca) Cerium (Ce) Lead (Pb) Niobium (Nb) Nitrogen (N) Titanium(Ti) Tungsten(W) Zirconium(Zr)		Magnesium(Mg) Manganese(Mn) Molybdenum(Mo) Nickel(Ni) Phosphorus(P) Silicon(Si) Sulfur(S) Tin(Sn) Vanadium(V) Antimony(Sb) Arsenic(As) Calcium (Ca) Cerium (Ce) Lead (Pb) Niobium (Nb) Nitrogen (N) Titanium(Ti) Tungsten(W) Zirconium(Zr)
Low,Medium,HighCarbonSteel&Low,Medium,HighAlloy Steel	Aluminum(Al) Aluminum(Al) Antimony(Sb) Arsenic(As) Arsenic(As) Boron(B) Boron(B) Calcium (Ca) Carbon(C) Carbon(C) Chromium(Cr) Chromium(Cr) Cobalt(Co) Cobalt(Co) Copper(Cu) Copper(Cu) Lead (Pb) Manganese(Mn) Manganese(Mn) Molybdenum(Mo) Molybdenum(Mo) Nickel(Ni) Nickel(Ni) Niobium (Nb) Niobium (Nb) Nitrogen (N) Phosphorus(P) Phosphorus(P) Silicon(Si) Silicon(Si) Sulfur(S) Sulfur(S) Tin(Sn) Tin(Sn) Titanium(Ti) Titanium(Ti) Vanadium(V) Vanadium(V) Zirconium(Zr) Zirconium(Zr)	Low,Medium,HighCarbonSteel&Low,Medium,HighAlloy Steel	Aluminum(Al) Aluminum(Al) Antimony(Sb) Arsenic(As) Arsenic(As) Boron(B) Boron(B) Calcium (Ca) Carbon(C) Carbon(C) Chromium(Cr) Chromium(Cr) Cobalt(Co) Cobalt(Co) Copper(Cu) Copper(Cu) Lead (Pb) Manganese(Mn) Manganese(Mn) Molybdenum(Mo) Molybdenum(Mo) Nickel(Ni) Nickel(Ni) Niobium (Nb) Niobium (Nb) Nitrogen (N) Phosphorus(P) Phosphorus(P) Silicon(Si) Silicon(Si) Sulfur(S) Sulfur(S) Tin(Sn) Tin(Sn) Titanium(Ti) Titanium(Ti) Vanadium(V) Vanadium(V) Zirconium(Zr) Zirconium(Zr)
MagnesiumandMagnesiumAlloys	Aluminum(Al) Beryllium(Be) Cadmium(Cd) Cerium (Ce) Copper(Cu) Iron(Fe) Lanthanum(La) Lead (Pb) Manganese(Mn) Nickel(Ni) Silicon(Si) Silver (Ag) Tin(Sn) Zinc(Zn)	MagnesiumandMagnesiumAlloys	Aluminum(Al) Beryllium(Be) Cadmium(Cd) Cerium (Ce) Copper(Cu) Iron(Fe) Lanthanum(La) Lead (Pb) Manganese(Mn) Nickel(Ni) Silicon(Si) Silver (Ag) Tin(Sn) Zinc(Zn)
Nickel&itsalloys	Aluminum(Al) Boron(B) Carbon(C) Chromium(Cr) Cobalt(Co) Copper(Cu) Cu,Sn,Pb,Ag,Zn,Ni,Mn,Fe Iron(Fe)	Nickel&itsalloys	Aluminum(Al) Boron(B) Carbon(C) Chromium(Cr) Cobalt(Co) Copper(Cu) Cu,Sn,Pb,Ag,Zn,Ni,Mn,Fe Iron(Fe)

	Magnesium(Mg) Manganese(Mn) Molybdenum(Mo) Nickel(Ni) Niobium (Nb) Nitrogen (N) Phosphorus(P) Silicon(Si) Sulfur(S) Tantalum(Ta) Tin(Sn) Titanium(Ti) Tungsten(W) Vanadium(V)		Magnesium(Mg) Manganese(Mn) Molybdenum(Mo) Nickel(Ni) Niobium (Nb) Nitrogen (N) Phosphorus(P) Silicon(Si) Sulfur(S) Tantalum(Ta) Tin(Sn) Titanium(Ti) Tungsten(W) Vanadium(V)
Stainless steel, Medium and High Alloy Steel and Duplex Steel	Manganese(Mn) Molybdenum(Mo) Nickel(Ni) Phosphorus(P) Silicon(Si) Sulfur(S)	Stainless steel, Medium and High Alloy Steel and Duplex Steel	Manganese(Mn) Molybdenum(Mo) Nickel(Ni) Phosphorus(P) Silicon(Si) Sulfur(S)
Stainless steel, Medium and High Alloy Steel, Tool Steel, High Manganese Steel and Duplex Steel	Carbon(C) Chromium(Cr) Chromium(Cr) Copper(Cu) Copper(Cu) Manganese(Mn) Molybdenum(Mo) Nickel(Ni) Phosphorus(P) Silicon(Si) Sulfur(S)	Stainless steel, Medium and High Alloy Steel, Tool Steel, High Manganese Steel and Duplex Steel	Carbon(C) Chromium(Cr) Chromium(Cr) Chromium(Cr) Copper(Cu) Copper(Cu) Manganese(Mn) Molybdenum(Mo) Nickel(Ni) Phosphorus(P) Silicon(Si) Sulfur(S)
Titanium&titanium alloys	Ti,Mn,Fe,V,Mo Aluminum(Al) Carbon(C) Chromium(Cr) Copper(Cu) Iron(Fe) Manganese(Mn) Molybdenum(Mo) Nickel(Ni) Niobium (Nb) Silicon(Si) Tin(Sn) Vanadium(V) Zirconium(Zr)	Titanium&titanium alloys	Ti,Mn,Fe,V,Mo Aluminum(Al) Carbon(C) Chromium(Cr) Chromium(Cr) Copper(Cu) Iron(Fe) Manganese(Mn) Molybdenum(Mo) Nickel(Ni) Niobium (Nb) Silicon(Si) Tin(Sn) Vanadium(V) Zirconium(Zr)
Zinc & Zinc alloys	Fe,Cu,Zn Aluminum(Al) Antimony(Sb) Bismuth(Bi) Cadmium(Cd) Cerium (Ce) Chromium(Cr) Copper(Cu) Indium (In) Iron(Fe) Lanthanum(La) Lead (Pb) Magnesium(Mg) Manganese(Mn) Nickel(Ni) Tin(Sn)	Zinc & Zinc alloys	Fe,Cu,Zn Aluminum(Al) Antimony(Sb) Bismuth(Bi) Cadmium(Cd) Cerium (Ce) Chromium(Cr) Copper(Cu) Indium (In) Iron(Fe) Lanthanum(La) Lead (Pb) Magnesium(Mg) Manganese(Mn) Nickel(Ni) Tin(Sn)
Water for construction purpose	Acidity Alkalinity Chloride Content Inorganic Impurities(Fixed Solids) Neutralization with 0.02N H2SO4 Neutralization with 0.02N NaOH Organic Impurities(Volatile Solids) pH Sulphate Content Total dissolved Solids Total Hardness Total Suspended Solids Matter	Water for construction purpose	Acidity Alkalinity Chloride Content Inorganic Impurities(Fixed Solids) Neutralization with 0.02N H2SO4 Neutralization with 0.02N NaOH Organic Impurities(Volatile Solids) pH Sulphate Content Total dissolved Solids Total Hardness Total Suspended Solids Matter
Adhesives	Tensile adhesion strengths	Adhesives	Tensile adhesion strengths

Aggregates	Soundness by MgSO ₄ and Na ₂ SO ₄ Stripping value	Aggregates	Soundness by MgSO ₄ and Na ₂ SO ₄ Stripping value
Aggregates /Rock	Petrographic Examination	Aggregates /Rock	Petrographic Examination
Anchor Bars and Rock Bolts /Rebar Grouting	Pull Out Test	Anchor Bars and Rock Bolts /Rebar Grouting	Pull Out Test
Anti Stripping Agent	Boiling Water Test	Anti Stripping Agent	Boiling Water Test
APP Membrane, Polyethylene Films and Sheets for or Concreting Works	Ageing Test Dart Impact Strength Thickness	APP Membrane, Polyethylene Films and Sheets for or Concreting Works	Ageing Test Dart Impact Strength Thickness
Asphalt Mixtures, Bituminous Mix	Binder content Density of Mix Flow Stability	Asphalt Mixtures, Bituminous Mix	Binder content Density of Mix Flow Stability
Autoclaved Cellular Aerated Concrete Blocks (AAC)	Compressive Strength Density Dimensions- Height, Length, Width Drying Shrinkage Moisture Content	Autoclaved Cellular Aerated Concrete Blocks (AAC)	Compressive Strength Density Dimensions- Height, Length, Width Drying Shrinkage Moisture Content
Bitumen Emulsion	Miscibility of Water Particle Charge Penetration Residue by Evaporation at 163 Degree Residue on 600 Micron Sieve Stability of Mixing with Cement Viscosity Saybolt Furel	Bitumen Emulsion	Miscibility of Water Particle Charge Penetration Residue by Evaporation at 163 Degree Residue on 600 Micron Sieve Stability of Mixing with Cement Viscosity Saybolt Furel
Bitumen Emulsion		Bitumen Emulsion	
Bitumen Max	Theoretical Maximum Specific Gravity and Density	Bitumen Max	Theoretical Maximum Specific Gravity and Density
Burnt clay bricks	Compressive strength Efflorescence Warpage Water absorption Dimension- Length, Width, Height	Burnt clay bricks	Compressive strength Efflorescence Warpage Water absorption Dimension- Length, Width, Height
Cement Concrete Tiles	Dimensions & Surface quality, Flatness, Perpendicularity, Straightness Resistance to Wear Water absorption Wet Transverse Strength	Cement Concrete Tiles	Dimensions & Surface quality, Flatness, Perpendicularity, Straightness Resistance to Wear Water absorption Wet Transverse Strength
Cementitious materials	Compressive strength Consistency Density Determination of fineness by dry sieving Final setting time Fineness by blaine air permeability Initial setting time Soundness by Le Chatelier methods	Cementitious materials	Compressive strength Consistency Density Determination of fineness by dry sieving Final setting time Fineness by blaine air permeability Initial setting time Soundness by Le Chatelier methods
Coarse Aggregates	10% Fines Value Bulk Density Crushing value Elongation index Flakiness index Impact value Los Angeles abrasion value (LAA) Sieve Analysis/Particle Shape & Size/Shape ratio/Material Finer / Gradation / Grain Size Analysis Specific gravity Water absorption	Coarse Aggregates	10% Fines Value Bulk Density Crushing value Elongation index Flakiness index Impact value Los Angeles abrasion value (LAA) Sieve Analysis/Particle Shape & Size/Shape ratio/Material Finer / Gradation / Grain Size Analysis Specific gravity Water absorption
Concrete	RCPT (Rapid Chloride Penetration Test)	Concrete	RCPT (Rapid Chloride Penetration Test)
Curing compounds for concrete	Ford Cup Viscosity Loss of Water Specific Gravity	Curing compounds for concrete	Ford Cup Viscosity Loss of Water Specific Gravity
Door Shutters	Buckling Edge loading End immersion test	Door Shutters	Buckling Edge loading End immersion test

	Flexure Test General Flatness Glue adhesion test Impact Indentation Knifetest Local Planeness Misuse test Screw withdrawal strength Shock Resistance Slamming test Varying Humidity		Flexure Test General Flatness Glue adhesion test Impact Indentation Knifetest Local Planeness Misuse test Screw withdrawal strength Shock Resistance Slamming test Varying Humidity
Doors & windows, Shuttering, Frames & Formworks	Moisture	Doors & windows, Shuttering, Frames & Formworks	Moisture
Fiber Reinforced Polymer Matrix Composite Bars	Tensile Strength (UTS)	Fiber Reinforced Polymer Matrix Composite Bars	Tensile Strength (UTS)
Fine Aggregates	Bulk density & voids Gradation (Sieve analysis 0.015 to 10 mm sieve size) Material finer than 75 micron Specific gravity Water absorption	Fine Aggregates	Bulk density & voids Gradation (Sieve analysis 0.015 to 10 mm sieve size) Material finer than 75 micron Specific gravity Water absorption
Fly ash bricks	Compressive strength Dimension- Length, Width, Height Efflorescence Warpage Water absorption	Fly ash bricks	Compressive strength Dimension- Length, Width, Height Efflorescence Warpage Water absorption
Foundry Sand	Bulk Density Clay Content Grain Fineness Moisture Content	Foundry Sand	Bulk Density Clay Content Grain Fineness Moisture Content
Fresh Concrete/ Admixture	Bleeding Flow	Fresh Concrete/ Admixture	Bleeding Flow
Fresh Concrete, Admixture, Concrete Mix	Slump test	Fresh Concrete, Admixture, Concrete Mix	Slump test
Fresh Concrete	Setting Time	Fresh Concrete	Setting Time
Glass bead	Gradation	Glass bead	Gradation
Glazed Stoneware Pipe	Absorption test (Water Absorption) Resistance to Acids/ Alkalis Three Edge Bearing Method/ Crushing Strength	Glazed Stoneware Pipe	Absorption test (Water Absorption) Resistance to Acids/ Alkalis Three Edge Bearing Method/ Crushing Strength
Ground Granulated Blast Furnace Slag	Glass Content Moisture Content	Ground Granulated Blast Furnace Slag	Glass Content Moisture Content
Gypsum Building Plaster Board	Dry Set Density Free Moisture/ Moisture Mass of Plaster Water Absorption	Gypsum Building Plaster Board	Dry Set Density Free Moisture/ Moisture Mass of Plaster Water Absorption
Hardened Concrete	Compressive Strength (Normal / Accelerated Cured) Flexural Strength Moisture Movement Split Tensile Test Water Penetration / Permeability of Concrete	Hardened Concrete	Compressive Strength (Normal / Accelerated Cured) Flexural Strength Moisture Movement Split Tensile Test Water Penetration / Permeability of Concrete
Hollow & Solid Concrete Blocks	Moisture Movement Dimensions- Height, Length, Width	Hollow & Solid Concrete Blocks	Moisture Movement Dimensions- Height, Length, Width
Hollow and solid concrete/ Light Weight concrete blocks	Compressive Strength Density Drying Shrinkage Moisture Content	Hollow and solid concrete/ Light Weight concrete blocks	Compressive Strength Density Drying Shrinkage Moisture Content
Hollow And Solid Light Weight Concrete Blocks	Dimensions- Height, Length, Width	Hollow And Solid Light Weight Concrete Blocks	Dimensions- Height, Length, Width
Manhole Cover	Dimension Test Load Bearing Test	Manhole Cover	Dimension Test Load Bearing Test
Mechanical Splices for Steel Reinforcing Bars	% Elongation at maximum force Tensile Strength (UTS/ Pull Out)	Mechanical Splices for Steel Reinforcing Bars	% Elongation at maximum force Tensile Strength (UTS/ Pull Out)
Paver Block, Interlocking Block, Precast Concrete Blocks	Abrasion Resistance Compressive strength Flexural strength Tensile Splitting Strength Water Absorption	Paver Block, Interlocking Block, Precast Concrete Blocks	Abrasion Resistance Compressive strength Flexural strength Tensile Splitting Strength Water Absorption
Pipes for Plumbing & drainage fittings	Color Dimension	Pipes for Plumbing & drainage fittings	Color Dimension

	Elongation Resistance to external blows TensileStrength		Elongation Resistance to external blows TensileStrength
Plaster of Paris	CompressiveStrength(Dry)	Plaster of Paris	CompressiveStrength(Dry)
Plywood for General Purpose	Acid & Alkalinity Resist ance Test Adhesion of plies Density, Moisture content Dimension Glue shear strength Resistance to Dry Heat Static bending Strength Modulus of Rupture Tensile strength Along the grain Water resistance (Glue shear strength)	Plywood for General Purpose	Acid & Alkalinity Resist ance Test Adhesion of plies Density, Moisture content Dimension Glue shear strength Resistance to Dry Heat Static bending Strength Modulus of Rupture Tensile strength Along the grain Water resistance (Glue shear strength)
Pozzolanic materials	Compressive strength Density Fineness Specific surface (Blaine) Setting time Sieve Analysis (45 microns retained) Soundness by Le-Chatlier	Pozzolanic materials	Compressive strength Density Fineness Specific surface (Blaine) Setting time Sieve Analysis (45 microns retained) Soundness by Le-Chatlier
Precast Concrete Kerbs (Kerb Stone), Channels, Edging, Quadrants and Other Associated Fittings	Bending Strength Dimension, Surface layer thickness Water Absorption	Precast Concrete Kerbs (Kerb Stone), Channels, Edging, Quadrants and Other Associated Fittings	Bending Strength Dimension, Surface layer thickness Water Absorption
Preformed Fillers for expansion Joints	Compression Density Resistance to Handling Water Absorption	Preformed Fillers for expansion Joints	Compression Density Resistance to Handling Water Absorption
Prestressing Strands H.T Strands / LRPC Strands	% Elongation (Total elongation) Breaking Strength Cross Section Area Diameter Mass per Meter	Prestressing Strands H.T Strands / LRPC Strands	% Elongation (Total elongation) Breaking Strength Cross Section Area Diameter Mass per Meter
Pulverized Fuel Ash - Cement Bricks	Compressive Strength Density Water Absorption	Pulverized Fuel Ash - Cement Bricks	Compressive Strength Density Water Absorption
Reinforcement Couplers for Mechanical Splices of Steel Bars TMT Coupler	% Elongation at maximum force Slip Test Tensile Strength (UT S/Pull Out)	Reinforcement Couplers for Mechanical Splices of Steel Bars TMT Coupler	% Elongation at maximum force Slip Test Tensile Strength (UT S/Pull Out)
Sealants	Adhesion and Tensile Modulus Consistency Mass loss after Heat Ageing	Sealants	Adhesion and Tensile Modulus Consistency Mass loss after Heat Ageing
Sheathing Ducts	Tension Load Transverse Load Rating Water Loss Workability Test	Sheathing Ducts	Tension Load Transverse Load Rating Water Loss Workability Test
Solid Round Glass Fiber Reinforced Polymer Bars for Concrete Reinforcement	Tensile Strength (UTS)	Solid Round Glass Fiber Reinforced Polymer Bars for Concrete Reinforcement	Tensile Strength (UTS)
Structural bearings	Shore Hardness	Structural bearings	Shore Hardness
Tar, bituminous materials and Anti Stripping Agent	Flash Point and Fire Point Solubility in Diesel Water Content	Tar, bituminous materials and Anti Stripping Agent	Flash Point and Fire Point Solubility in Diesel Water Content
Tar and Bituminous Materials, Sealants	Absolute Viscosity Ductility Penetration Softening point	Tar and Bituminous Materials, Sealants	Absolute Viscosity Ductility Penetration Softening point
Tar and bituminous materials	Kinematics Viscosity Loss on heating Specific gravity	Tar and bituminous materials	Kinematics Viscosity Loss on heating Specific gravity
Thermoplastic Road Marking Material	Binder content Drying Time Flow Resistance Glass Bead Content Low Temperature Stress Resistance Softening point	Thermoplastic Road Marking Material	Binder content Drying Time Flow Resistance Glass Bead Content Low Temperature Stress Resistance Softening point
Tiles (Ceramic Vitrified Glazed / Un Glazed, Flooring, Wall), Stones / Rock	MOHS Scratch Hardness	Tiles (Ceramic Vitrified Glazed / Un Glazed, Flooring, Wall), Stones / Rock	MOHS Scratch Hardness
Tiles (Ceramic Vitrified Glazed / Un Glazed, Flooring,	Breaking Strength, Modulus	Tiles (Ceramic Vitrified Glazed / Un Glazed, Flooring,	Breaking Strength, Modulus

Wall)	sof Rupture Dimensions&Surfacequali ty, Flatness,Perpendicularity, Straightness ResistancetoChemicals- acids and alkalis, house hold chemicals & swimming pool salts Waterabsorption	Wall)	sof Rupture Dimensions&Surfacequali ty, Flatness,Perpendicularity, Straightness ResistancetoChemicals- acids and alkalis, house hold chemicals & swimming pool salts Waterabsorption
Timber	Moisture	Timber	Moisture
TimberandTimberproducts	Density	TimberandTimberproducts	Density
Water Stop used in Masonry and Concrete dams & Pipes for Plumbing & drainage fittings	ShoreHardness	Water Stop used in Masonry and Concrete dams & Pipes for Plumbing & drainage fittings	ShoreHardness
WaterStopusedinMasonryandConcretedams	AcceleratedExtractionTest Stabilityineffectofalkali es Test Tensileproperties	WaterStopusedinMasonryandConcretedams	AcceleratedExtractionTest Stabilityineffectofalkali es Test Tensileproperties
Alloy-Steel andStainlessSteelBolting	TensileTest,WedgeTe nsile, Full Size Tensile, Machined TensileTest TensileTest,WedgeTe nsile, Full Size Tensile, Machined TensileTest	Alloy-Steel andStainlessSteelBolting	TensileTest,WedgeTe nsile, Full Size Tensile, Machined TensileTest TensileTest,WedgeTe nsile, Full Size Tensile, Machined TensileTest
Arcandgasweldedproductsofsteelsandarcwelded products of nickel and nickel alloys	TensileTest	Arcandgasweldedproductsofsteelsandarcwelded products of nickel and nickel alloys	TensileTest
CarbonandAlloySteelNuts	ProofLoadTest	CarbonandAlloySteelNuts	ProofLoadTest
CarbonSteelandAlloySteelNuts	ProofLoadTest ProofLoadTest	CarbonSteelandAlloySteelNuts	ProofLoadTest ProofLoadTest
CarbonSteelandBolts,ScrewsandStuds	%Elongation %ReductionofArea ProofLoadTest TensileTest,WedgeTe nsile, Full Size Tensile, Machined TensileTest YieldStress,0.2to1.0%Pro of Stress	CarbonSteelandBolts,ScrewsandStuds	%Elongation %ReductionofArea ProofLoadTest TensileTest,WedgeTe nsile, Full Size Tensile, Machined TensileTest YieldStress,0.2to1.0%Pro of Stress
CarbonSteel,AlloySteel,andStainlessSteelNutsfo rBolts	ProofLoadTest	CarbonSteel,AlloySteel,andStainlessSteelNutsfo rBolts	ProofLoadTest
CastIrons	CharpyImpact@(+)90to(-)196°cwith2or8mm Stricker (Notched & Unnotched)	CastIrons	CharpyImpact@(+)90to(-)196°cwith2or8mm Stricker (Notched & Unnotched)
CoatedPainted PlatedProducts	Adhesion Test(Cross Cut T est) Tape Test / Cross Hatch Test) Colour DryingFilmThickness EffectofHeat EffectofHeat EvaluatingDegreeofBliste ring ofPaints EvaluationofPaintedorCoa ted Specimens Subjected to CorrosiveEnvironments Film Hardness by PencilTest FlexibilityTest Gloss Value Gloss Value HumidityandCoolHeat	CoatedPainted PlatedProducts	Adhesion Test(Cross Cut T est) Tape Test / Cross Hatch Test) Colour DryingFilmThickness EffectofHeat EffectofHeat EvaluatingDegreeofBliste ring ofPaints EvaluationofPaintedorCoa ted Specimens Subjected to CorrosiveEnvironments Film Hardness by PencilTest FlexibilityTest Gloss Value Gloss Value HumidityandCoolHeat

	Cycling Test Impact resistance Falling weight test Resistance to acid & Alkali Resistance to Humidity Resistance to Humidity Resistance to Humidity Resistance to liquids Resistance to water Resistance to water Resistance to Water Resistance to water Scratch Hardness		Cycling Test Impact resistance Falling weight test Resistance to acid & Alkali Resistance to Humidity Resistance to Humidity Resistance to Humidity Resistance to liquids Resistance to water Resistance to water Resistance to Water Resistance to water Scratch Hardness
Coated/Painted Products	Bend Test	Coated/Painted Products	Bend Test
DTI Washer	Compression Test	DTI Washer	Compression Test
Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets	Proof Load Test Tensile Test, Wedge Tensile, Full Size Tensile, Machined Tensile Test	Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets	Proof Load Test Tensile Test, Wedge Tensile, Full Size Tensile, Machined Tensile Test
Fasteners	Decarburization Depth (micro-indentation hardness)	Fasteners	Decarburization Depth (micro-indentation hardness)
Galvanized Steel Barbed Wire	Diameter, Mass of Wire	Galvanized Steel Barbed Wire	Diameter, Mass of Wire
Grey Iron Castings	Transverse Test	Grey Iron Castings	Transverse Test
High strength deformed steel bars and wires and Fusion Bonded Epoxy Coated Reinforcing Bars, TMT Bars	Bend/Rebend Test	High strength deformed steel bars and wires and Fusion Bonded Epoxy Coated Reinforcing Bars, TMT Bars	Bend/Rebend Test
High strength deformed steel bars and wires, TMT Bars	% Elongation Ultimate Tensile Strength/Stress (UTS) Yield Stress, 0.2 to 1.0% Proof Stress	High strength deformed steel bars and wires, TMT Bars	% Elongation Ultimate Tensile Strength/Stress (UTS) Yield Stress, 0.2 to 1.0% Proof Stress
Hot dip galvanized coated ferrous materials	Mass of Zinc Coating (GSM)	Hot dip galvanized coated ferrous materials	Mass of Zinc Coating (GSM)
Hot Rolled Steel Beam/Column/Channel and Angle	Weight per meter	Hot Rolled Steel Beam/Column/Channel and Angle	Weight per meter
Hot-Dip Galvanized Coated Round Steel Wires	Mass of Zinc Coating (GSM)	Hot-Dip Galvanized Coated Round Steel Wires	Mass of Zinc Coating (GSM)
Hot-Dip Galvanizing of Iron and Steel	Adhesion Test Knife Test Uniformity of Zinc Coating (Preece Test)	Hot-Dip Galvanizing of Iron and Steel	Adhesion Test Knife Test Uniformity of Zinc Coating (Preece Test)
Iron and Steel Articles	Mass of Zinc Coating (GSM)	Iron and Steel Articles	Mass of Zinc Coating (GSM)
Metallic Material	% Elongation % Reduction of Area Bend Charpy Impact @ (+) 90 to (-) 196°C with 2 or 8mm Striker Charpy Impact up to (-) 196°C Ultimate Tensile Strength/Stress (UTS) Vickers Hardness Test, Scal	Metallic Material	% Elongation % Reduction of Area Bend Charpy Impact @ (+) 90 to (-) 196°C with 2 or 8mm Striker Charpy Impact up to (-) 196°C Ultimate Tensile Strength/Stress (UTS) Vickers Hardness Test, Scal

	e: HV1, HV0.3, HV0.2 VickersHardnessTest,Scale: HV30, HV10, HV5, HV2, HV1, HV0.3, HV0.2 YieldStress, 0.2 to 1.0% Proof Stress %Elongation %Reduction of Area Bend BrinellHardnessTest, Scale: HBW2.5/187.5, HBW5/250, HBW5/750, HBW10/3000 BrinellHardnessTest, Scale: HBW2.5/187.5, HBW5/250, HBW5/750, HBW10/3000 Charpy Impact @ (-70°C) 196°C with 2 or 8mm Stricker Compression Testing RockwellHardnessTest, Scale: A, B, C SolventRubTest (MEK Resistance) Surface Roughness Surface Roughness Surface Roughness Ultimate Tensile Strength/Stress (UTS) VickersHardnessTest, Scale: HV30, HV10, HV5, HV2, HV1, HV0.3, HV0.2 YieldStress, 0.2 to 1.0% Proof Stress		e: HV1, HV0.3, HV0.2 VickersHardnessTest, Scale: HV30, HV10, HV5, HV2, HV1, HV0.3, HV0.2 YieldStress, 0.2 to 1.0% Proof Stress %Elongation %Reduction of Area Bend BrinellHardnessTest, Scale: HBW2.5/187.5, HBW5/250, HBW5/750, HBW10/3000 BrinellHardnessTest, Scale: HBW2.5/187.5, HBW5/250, HBW5/750, HBW10/3000 Charpy Impact @ (-70°C) 196°C with 2 or 8mm Stricker Compression Testing RockwellHardnessTest, Scale: A, B, C SolventRubTest (MEK Resistance) Surface Roughness Surface Roughness Surface Roughness Ultimate Tensile Strength/Stress (UTS) VickersHardnessTest, Scale: HV30, HV10, HV5, HV2, HV1, HV0.3, HV0.2 YieldStress, 0.2 to 1.0% Proof Stress
Metallic Materials & Welded Items	BrinellHardnessTest, Scale: HBW2.5/187.5, HBW5/250, HBW5/750, HBW10/3000 RockwellHardnessTest, Scale: A, B, C VickersHardnessTest, Scale: HV30, HV10, HV5, HV2, HV1, HV0.3, HV0.2	Metallic Materials & Welded Items	BrinellHardnessTest, Scale: HBW2.5/187.5, HBW5/250, HBW5/750, HBW10/3000 RockwellHardnessTest, Scale: A, B, C VickersHardnessTest, Scale: HV30, HV10, HV5, HV2, HV1, HV0.3, HV0.2
Metallic Materials - Tube	Ring Tensile Test Wrapping Test Bend Flattening Test	Metallic Materials - Tube	Ring Tensile Test Wrapping Test Bend Flattening Test
Metallic Materials	%Elongation %Elongation %Reduction of Area %Reduction of Area Bend Test Jominy Ultimate Tensile Strength/Stress (UTS) Ultimate Tensile Strength/Stress (UTS)	Metallic Materials	%Elongation %Elongation %Reduction of Area %Reduction of Area Bend Test Jominy Ultimate Tensile Strength/Stress (UTS) Ultimate Tensile Strength/Stress (UTS)

	Yield Stress, 0.2 to 1.0% Pro of Stress Yield Stress, 0.2 to 1.0% Pro of Stress		Yield Stress, 0.2 to 1.0% Pro of Stress Yield Stress, 0.2 to 1.0% Pro of Stress
Metallic Tubular Products	%Elongation Flattening Test Flattening Test Ultimate Tensile Strength/Stress (UTS) Yield Stress, 0.2 to 1.0% Pro of Stress	Metallic Tubular Products	%Elongation Flattening Test Flattening Test Ultimate Tensile Strength/Stress (UTS) Yield Stress, 0.2 to 1.0% Pro of Stress
Metallic Welded Items	%Elongation %Reduction of Area Bend Fracture Test, Nick Break Test Fracture Test, Nick Break Test Impact Impact Tests Nick Break Test, Fracture Test Ultimate Tensile Strength/Stress (UTS) Yield Stress, 0.2 to 1.0% Pro of Stress	Metallic Welded Items	%Elongation %Reduction of Area Bend Fracture Test, Nick Break Test Fracture Test, Nick Break Test Impact Impact Tests Nick Break Test, Fracture Test Ultimate Tensile Strength/Stress (UTS) Yield Stress, 0.2 to 1.0% Pro of Stress
Metals	Izod Impact Test Shear Test Shear Test Torque Test	Metals	Izod Impact Test Shear Test Shear Test Torque Test
Non-alloyed and low-alloyed cast irons	Tensile Test	Non-alloyed and low-alloyed cast irons	Tensile Test
Painted or Coated Specimens	Adhesion Test (Cross Cut Test / Tape Test / Cross Hatch Test) Adhesion Test (Cross Cut Test / Tape Test / Cross Hatch Test) Bend Test (Conical Mandrel only) Drop Impact Film Hardness by Pencil Test	Painted or Coated Specimens	Adhesion Test (Cross Cut Test / Tape Test / Cross Hatch Test) Adhesion Test (Cross Cut Test / Tape Test / Cross Hatch Test) Bend Test (Conical Mandrel only) Drop Impact Film Hardness by Pencil Test
Painted Products / Panels / Raw Materials	Coating Thickness by Elcometer Coating Thickness by Elcometer Coating Thickness by Elcometer Coating Thickness by Elcometer Tensile Test, Wedge Tensile Test, Full Size Tensile, Machined test Piece	Painted Products / Panels / Raw Materials	Coating Thickness by Elcometer Coating Thickness by Elcometer Coating Thickness by Elcometer Coating Thickness by Elcometer Tensile Test, Wedge Tensile Test, Full Size Tensile, Machined test Piece
Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless	Bend Test	Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless	Bend Test
Pipelines and Related Facilities, Welded Pipes	%Elongation Bend Fracture Test, Nick Break Test	Pipelines and Related Facilities, Welded Pipes	%Elongation Bend Fracture Test, Nick Break Test

	Ultimate Tensile Strength/Stress (UTS) Yield Stress, 0.2 to 1.0% Proof Stress		Ultimate Tensile Strength/Stress (UTS) Yield Stress, 0.2 to 1.0% Proof Stress
Rivets	Diameter	Rivets	Diameter
Seamless Carbon Steel Pipe	Bend Test	Seamless Carbon Steel Pipe	Bend Test
Stainless Steel Bolts, screws and studs	Proof Load Test Tensile Test, Wedge Tensile, Full Size Tensile, Machined Tensile Test	Stainless Steel Bolts, screws and studs	Proof Load Test Tensile Test, Wedge Tensile, Full Size Tensile, Machined Tensile Test
Stainless Steel Nuts	Proof Load Test	Stainless Steel Nuts	Proof Load Test
Stainless Steel Parts	Ferroxy Test Water Immersion Test, Practice A	Stainless Steel Parts	Ferroxy Test Water Immersion Test, Practice A
	Decarburization Depth (Micro-indentation hardness methods) Decarburization Depth (micro-indentation hardness) Effective Case Depth by Micro Vickers Hardness	Steel	Decarburization Depth (Micro-indentation hardness methods) Decarburization Depth (micro-indentation hardness) Effective Case Depth by Micro Vickers Hardness
Steel Pipes	Weight per meter	Steel Pipes	Weight per meter
Steel Products	% Elongation % Reduction of Area Bend Test Brinell Hardness Test, Scale: HBW 2.5/187.5, HBW 5/250, HBW 5/750, HBW 10/3000 Charpy Impact @ (+) 90 to (-) 196 °C with 2 or 8 mm Striker Flaring (Drift expansion) Flattening Test Proof Load Test Rockwell Hardness Test, Scale: A, B, C Ultimate Tensile Strength/Stress (UTS) Yield Stress, 0.2 to 1.0% Proof Stress	Steel Products	% Elongation % Reduction of Area Bend Test Brinell Hardness Test, Scale: HBW 2.5/187.5, HBW 5/250, HBW 5/750, HBW 10/3000 Charpy Impact @ (+) 90 to (-) 196 °C with 2 or 8 mm Striker Flaring (Drift expansion) Flattening Test Proof Load Test Rockwell Hardness Test, Scale: A, B, C Ultimate Tensile Strength/Stress (UTS) Yield Stress, 0.2 to 1.0% Proof Stress
Steel Reinforcing bars, rods and wire	% Elongation Ultimate Tensile Strength/Stress (UTS) Yield Stress, 0.2 to 1.0% Proof Stress	Steel Reinforcing bars, rods and wire	% Elongation Ultimate Tensile Strength/Stress (UTS) Yield Stress, 0.2 to 1.0% Proof Stress
Steel sections	Weight per meter	Steel sections	Weight per meter
Steel Tubes	Bend Crushing Test Weight per meter	Steel Tubes	Bend Crushing Test Weight per meter
Steel	Hardenability (End Quenched or Jominy) Test Hardenability (End Quenched or Jominy) Test	Steel	Hardenability (End Quenched or Jominy) Test Hardenability (End Quenched or Jominy) Test
Threaded Fasteners	Proof Load Test Tensile Test, Wedge Tensile, Full Size Tensile, Machined Tensile Test	Threaded Fasteners	Proof Load Test Tensile Test, Wedge Tensile, Full Size Tensile, Machined Tensile Test

Tube&Pipes	Thickness	Tube&Pipes	Thickness
Washer	Permanent Load/Set Test Twist Test	Washer	Permanent Load/Set Test Twist Test
Weld in Metallic Materials	%Elongation Ultimate Tensile Strength/Stress (UTS) Yield Stress, 0.2 to 1.0% Proof Stress %Elongation %Reduction of Area Bend Test Ultimate Tensile Strength/Stress (UTS) Yield Stress, 0.2 to 1.0% Proof Stress	Weld in Metallic Materials	%Elongation Ultimate Tensile Strength/Stress (UTS) Yield Stress, 0.2 to 1.0% Proof Stress %Elongation %Reduction of Area Bend Test Ultimate Tensile Strength/Stress (UTS) Yield Stress, 0.2 to 1.0% Proof Stress
Welding Rods, Electrodes, and Filler Metals	%Elongation %Reduction of Area Bend Ultimate Tensile Strength/Stress (UTS) Yield Stress, 0.2 to 1.0% Proof Stress	Welding Rods, Electrodes, and Filler Metals	%Elongation %Reduction of Area Bend Ultimate Tensile Strength/Stress (UTS) Yield Stress, 0.2 to 1.0% Proof Stress
Welds & welded test specimens	%Elongation %Reduction of Area Bend Test Bend Test Bend Charpy Impact @ (+) 90 to (-) 196°C with 2 or 8mm Striker Fracture Test, Nick Break Test Hardness Test Ultimate Tensile Strength/Stress (UTS) Yield Stress, 0.2 to 1.0% Proof Stress Bend Test Fracture Test, Nick Break Test	Welds & welded test specimens	%Elongation %Reduction of Area Bend Test Bend Test Bend Charpy Impact @ (+) 90 to (-) 196°C with 2 or 8mm Striker Fracture Test, Nick Break Test Hardness Test Ultimate Tensile Strength/Stress (UTS) Yield Stress, 0.2 to 1.0% Proof Stress Bend Test Fracture Test, Nick Break Test
Welds and Welded, Brazed, Fused, Soldered test specimens & Products	%Elongation %Reduction of Area Bend Charpy Impact @ (+) 90 to (-) 196°C with 2 or 8mm Striker Fracture Test, Nick Break Test Ultimate Tensile Strength/Stress (UTS) Yield Stress, 0.2 to 1.0% Proof Stress	Welds and Welded, Brazed, Fused, Soldered test specimens & Products	%Elongation %Reduction of Area Bend Charpy Impact @ (+) 90 to (-) 196°C with 2 or 8mm Striker Fracture Test, Nick Break Test Ultimate Tensile Strength/Stress (UTS) Yield Stress, 0.2 to 1.0% Proof Stress
Wire Strand, Prestressing Strands HT Strand, LRPC Strands, Barbed Wire, Fencing Wire	%Elongation Ultimate Tensile Strength/Stress (UTS)	Wire Strand, Prestressing Strands HT Strand, LRPC Strands, Barbed Wire, Fencing Wire	%Elongation Ultimate Tensile Strength/Stress (UTS)

Wrought and Cast Aluminum- and Magnesium-Alloy Products	%Elongation %ReductionofArea UltimateTensile Strength/Stress(UTS) YieldStress,0.2to1.0%Pro of Stress	Wrought and Cast Aluminum- and Magnesium-Alloy Products	%Elongation %ReductionofArea UltimateTensile Strength/Stress(UTS) YieldStress,0.2to1.0%Pro of Stress
Zinccoatedironandsteelarticles	MassofZincCoating(GSM)) MethodA,Ferricch loride pittingtest MethodB,Ferricchlori de crevicetest. MethodC(Critical Pitting TemperatureTest) MethodD(CriticalCrevice TemperatureTest) MethodE, Critical pitting temperaturetestforstainles s steels. MethodF(CriticalCrevice Temperature Test)	Zinccoatedironandsteelarticles	MassofZincCoating(GSM) MethodA,Ferricch loride pittingtest MethodB,Ferricchlori de crevicetest. MethodC(Critical Pitting TemperatureTest) MethodD(CriticalCrevice TemperatureTest) MethodE, Critical pitting temperaturetestforstainles s steels. MethodF(CriticalCrevice Temperature Test)
AusteniticStainlessSteels	MonypennyStraussTest IGC,HueyTest IGC,Hueytest PracticeA,OxalicAcid Etch Test PracticeB,FerricSulfate - Sulfuric Acid Test PracticeC,NitricAcid Test PracticeE,Copper- Copper Sulfate- 16%SulfuricAcid Test PracticeF,Copper- Copper Sulfate- 50%SulfuricAcid Test MethodA,The16%Sulfuri c Acid/CopperSulfateTest(Monypenny Strauss Test) Method B, The 35% Sulfuric Acid/Copper Sulfate Test Method C, The 40% Sulfuric Acid/Copper Sulfate Test	AusteniticStainlessSteels	MonypennyStraussTest IGC,HueyTest IGC,Hueytest PracticeA,OxalicAcid Etch Test PracticeB,FerricSulfate - Sulfuric Acid Test PracticeC,NitricAcid Test PracticeE,Copper- Copper Sulfate- 16%SulfuricAcid Test PracticeF,Copper- Copper Sulfate- 50%SulfuricAcid Test MethodA,The16%Sulfuri c Acid/CopperSulfateTest(Monypenny Strauss Test) Method B, The 35% Sulfuric Acid/Copper Sulfate Test Method C, The 40% Sulfuric Acid/Copper Sulfate Test
AuteniticStainlessSteelCastings	Ferritecontent,Chemical Compositionmethod	AuteniticStainlessSteelCastings	Ferritecontent,Chemical Compositionmethod
BearingSteel	CarbideStructure	BearingSteel	CarbideStructure
CastIron(CLSGLMCLWCLNClc)	MicroExamination	CastIron(CLSGLMCLWCLNClc)	MicroExamination
CastIron	Size&DistributionOfGrap hite Flake & Nodular Size&DistributionOfGrap hite Flake & Nodular	CastIron	Size&DistributionOfGrap hite Flake & Nodular Size&DistributionOfGrap hite Flake & Nodular
CleanlinessofComponents&SystemsforRoadVeh icles	Partiele Size and Count Analysis(MilliporeTes ting) Particle Size and Count Analysis(MilliporeTes ting) Particle Size and Count Analysis(MilliporeTes ting)	CleanlinessofComponents&SystemsforRoadVeh icles	Particle Size and Count Analysis(MilliporeTes ting) Particle Size and Count Analysis(MilliporeTes ting) Particle Size and Count Analysis(MilliporeTes ting)
Coated/Painted/ PlatedProducts	CoatingThickness(by Microscopic Method) CoatingThicknessby MicroscopicMethod CoatingThicknessby MicroscopicMethod	Coated/Painted/ PlatedProducts	CoatingThickness(by Microscopic Method) CoatingThicknessby MicroscopicMethod CoatingThicknessby MicroscopicMethod
CopperAlloys	Mercurous Nitrate Test Mercurous Nitrate Test	CopperAlloys	Mercurous Nitrate Test Mercurous Nitrate Test

copperalloyswithzinc	Determinationof dezincification resistance	copperalloyswithzinc	Determinationof dezincification resistance
Copper and copperalloys	Estimationofaveragegr ain size	Copper and copperalloys	Estimationofaveragegr ain size
DuctileIron	DeterminingNodularityAn d NoduleCount	DuctileIron	DeterminingNodularityAn d NoduleCount
DuplexAustenitic/FerriticStainlessSteels	TestMethodA-Sodium Hydroxide Etch Test TestMethodB- CharpyImpact Test TestMethodC- FerrieChloride CorrosionTest MicrostructureExaminatio n	DuplexAustenitic/FerriticStainlessSteels	TestMethodA-Sodium Hydroxide Etch Test TestMethodB- CharpyImpact Test TestMethodC- FerrieChloride CorrosionTest MicrostructureExaminatio n
FerriticStainlessSteel	PracticeW- OxalicAcidEtch Test Practice Z- Copper- Copper Sulfate- 16% SulfuricAcidTest	FerriticStainlessSteel	PracticeW- OxalicAcidEtch Test Practice Z- Copper- Copper Sulfate- 16% SulfuricAcidTest
FerrousandNon-FerrousMaterial	VolumeFraction	FerrousandNon-FerrousMaterial	VolumeFraction
MetallicMaterials,SteelBar,Billets,Blooms,AndF orgings	GrainSizeMeasurement	MetallicMaterials,SteelBar,Billets,Blooms,AndF orgings	GrainSizeMeasurement
MetallicMaterials	CaseDepth DegreeofBanding GrainSizeMeasurement Macro/MicroExamination Macro, Micro, Visual Examination, Weld Penetration, Weld Measurement, Porosity	MetallicMaterials	CaseDepth DegreeofBanding GrainSizeMeasurement Macro/MicroExamination Macro, Micro, Visual Examination, Weld Penetration, Weld Measurement, Porosity
MetallicWeldedItems	Macro/MicroExamination Macro/MicroExamination Macro/MicroExamination Macro/MicroExamination Macro, Micro, Visual Examination, Weld Penetration, Weld Measurement, Porosity Macro, Micro, Visual Examination, Weld Penetration, Weld Measurement, Porosity	MetallicWeldedItems	Macro/MicroExamination Macro/MicroExamination Macro/MicroExamination Macro/MicroExamination Macro, Micro, Visual Examination, Weld Penetration, Weld Measurement, Porosity Macro, Micro, Visual Examination, Weld Penetration, Weld Measurement, Porosity
Steel	Macro/MicroExamination Macro/MicroExamination MacroStreakFlaw	Steel	Macro/MicroExamination Macro/MicroExamination MacroStreakFlaw
SteelBar,Billets,Blooms,AndForgings	Macroetch Macroetch	SteelBar,Billets,Blooms,AndForgings	Macroetch Macroetch
Steel	CaseDepth(Microscop ic Method) DecarburizationDepth (MicroscopicMethod) DecarburizationDepth (MicroscopicMethod) InclusionRating InclusionRating	Steel	CaseDepth(Microscop ic Method) DecarburizationDepth (MicroscopicMethod) DecarburizationDepth (MicroscopicMethod) InclusionRating InclusionRating
Welds & welded test specimens	Macro/MicroExamination Macro/MicroExamination	Welds & welded test specimens	Macro/MicroExamination Macro/MicroExamination
WroughtAluminiumandAluminiumAlloy Products	MacroEtchTest	WroughtAluminiumandAluminiumAlloy Products	MacroEtchTest
WroughtSteelProducts	Macroetch	WroughtSteelProducts	Macroetch
Wrought,Nickel-Rich,Chromium-BearingAlloys	MethodA,FerricS ulfate- Sulfuric Acid Test MethodB,MixedAcid- Oxidizing SaltTest	Wrought,Nickel-Rich,Chromium-BearingAlloys	MethodA,FerricS ulfate- Sulfuric Acid Test MethodB,MixedAcid- Oxidizing SaltTest
Clays&Soils	ConsolidationTest,CC ConsolidationTest,Cv ConsolidationTest,Pc DirectShearTest(DST)A ngle of internal friction DirectShearTest(DST) Cohesion HydrometerAnalysis Lightcompaction-MDD Lightcompaction-OMC ShrinkageLimit Specificgravity	Clays&Soils	ConsolidationTest,CC ConsolidationTest,Cv ConsolidationTest,Pc DirectShearTest(DST)A ngle of internal friction DirectShearTest(DST) Cohesion HydrometerAnalysis Lightcompaction-MDD Lightcompaction-OMC ShrinkageLimit Specificgravity

	Triaxial Shear test, Angle of internal friction Triaxial Shear test, Cohesion Unconfined Compressive Strength (UCS)		Triaxial Shear test, Angle of internal friction Triaxial Shear test, Cohesion Unconfined Compressive Strength (UCS)
Natural Building Stone	Apparent/True porosity Apparent/True Specific Gravity Compressive Strength Resistance to wear Split Tensile Strength Water Absorption	Natural Building Stone	Apparent/True porosity Apparent/True Specific Gravity Compressive Strength Resistance to wear Split Tensile Strength Water Absorption
Soil, Clays, GSB, WMM, Bentonite	Liquid Limit Plastic Limit	Soil, Clays, GSB, WMM, Bentonite	Liquid Limit Plastic Limit
Soil, Clays, GSB, WMM, WBM	California Bearing Ratio (CBR) Permeability	Soil, Clays, GSB, WMM, WBM	California Bearing Ratio (CBR) Permeability
Soil, Clays, GSB, WMM	Heavy compaction, MDD Heavy compaction-OMC	Soil, Clays, GSB, WMM	Heavy compaction, MDD Heavy compaction-OMC
Soil, Clays	Free Swell Index (FSI)	Soil, Clays	Free Swell Index (FSI)
Soil	Gradation (Sieve analysis 0.075 to 125 mm sieve size)	Soil	Gradation (Sieve analysis 0.075 to 125 mm sieve size)
Stones/Rock	Compressive Strength (UCS) Density Indirect Tensile strength (by Line Load test) Point load index	Stones/Rock	Compressive Strength (UCS) Density Indirect Tensile strength (by Line Load test) Point load index
Clays and Soils	Electrical Resistivity by Wenner's Four Electrode method (By Soil Box)	Clays and Soils	Electrical Resistivity by Wenner's Four Electrode method (By Soil Box)
Soil, Clays, GSB, WMM, WBM	Water content %	Soil, Clays, GSB, WMM, WBM	Water content %
Stones/Rock	Water Content	Stones/Rock	Water Content
Geogrids	Wide Width Tensile and Elongation	Geogrids	Wide Width Tensile and Elongation
Geomembranes and Related Products	Index Puncture Resistance	Geomembranes and Related Products	Index Puncture Resistance
Geomembranes	Wide Width Tensile and Elongation	Geomembranes	Wide Width Tensile and Elongation
Geosynthetics	Wide Width Tensile Elongation Static (CBR) Puncture Resistance Thickness at 2kpa	Geosynthetics	Wide Width Tensile Elongation Static (CBR) Puncture Resistance Thickness at 2kpa
Geotextiles (Woven and Non Woven)	Apert Opening Size Mass per Unit Area	Geotextiles (Woven and Non Woven)	Apert Opening Size Mass per Unit Area
Geotextiles and Geotextile-Related Products	Mass per Unit Area Mass per Unit Area Static (CBR) Puncture Resistance	Geotextiles and Geotextile-Related Products	Mass per Unit Area Mass per Unit Area Static (CBR) Puncture Resistance
Geotextiles	Puncture Resistance by falling cone method Thickness at 2kpa Wide Width Tensile and Elongation	Geotextiles	Puncture Resistance by falling cone method Thickness at 2kpa Wide Width Tensile and Elongation
Nonreinforced Polyethylene and Nonreinforced Flexible Polypropylene Geomembranes, Geo Cell, Geogrid, Geo strips	Tensile Test	Nonreinforced Polyethylene and Nonreinforced Flexible Polypropylene Geomembranes, Geo Cell, Geogrid, Geo strips	Tensile Test
Ropes & Cordages	Breaking Load & Elongation	Ropes & Cordages	Breaking Load & Elongation
Textiles-Fabrics	Breaking load and elongation Mass	Textiles-Fabrics	Breaking load and elongation Mass
Reinforced Concrete Structures	Half Cell Potential test	Reinforced Concrete Structures	Half Cell Potential test
Aluminium & its alloys	Ti, Cr, Mn, Fe, Cu, Zn	Aluminium & its alloys	Ti, Cr, Mn, Fe, Cu, Zn
Cobalt & its alloys	Co, Cr, Ni, Mn, W, Fe	Cobalt & its alloys	Co, Cr, Ni, Mn, W, Fe
Iron & its alloys	Mn, Cr, Ni, Mo, Cu, Ti, Nb, Pb, Sn, Sb, V, Fe, W, Co	Iron & its alloys	Mn, Cr, Ni, Mo, Cu, Ti, Nb, Pb, Sn, Sb, V, Fe, W, Co
Nickel & its alloys	Cu, Sn, Pb, Ag, Zn, Ni, Mn, Fe	Nickel & its alloys	Cu, Sn, Pb, Ag, Zn, Ni, Mn, Fe
Titanium & titanium alloys	Ti, Mn, Fe, V, Mo	Titanium & titanium alloys	Ti, Mn, Fe, V, Mo
Zinc & Zinc alloys	Fe, Cu, Zn	Zinc & Zinc alloys	Fe, Cu, Zn

Adhesives	Tensile adhesion strengths	Adhesives	Tensile adhesion strengths
Anchor Bars and Rock Bolts /Rebar Grouting	Pull Out Test	Anchor Bars and Rock Bolts /Rebar Grouting	Pull Out Test
Structural bearings	Shore Hardness	Structural bearings	Shore Hardness
Coated/Painted/ Plated Products	Adhesion Test (Cross Cut Test / Tape Test / Cross Hatch Test) Gloss Value Gloss Value	Coated/Painted/ Plated Products	Adhesion Test (Cross Cut Test / Tape Test / Cross Hatch Test) Gloss Value Gloss Value
Hot-Dip Galvanizing of Iron and Steel	Adhesion Test	Hot-Dip Galvanizing of Iron and Steel	Adhesion Test
Painted or Coated Specimens	Adhesion Test (Cross Cut Test / Tape Test / Cross Hatch Test) Adhesion Test (Cross Cut Test / Tape Test / Cross Hatch Test)	Painted or Coated Specimens	Adhesion Test (Cross Cut Test / Tape Test / Cross Hatch Test) Adhesion Test (Cross Cut Test / Tape Test / Cross Hatch Test)
Painted Products/Panels/Raw Materials	Coating Thickness by Elcometer Coating Thickness by Elcometer Coating Thickness by Elcometer Coating Thickness by Elcometer	Painted Products/Panels/Raw Materials	Coating Thickness by Elcometer Coating Thickness by Elcometer Coating Thickness by Elcometer Coating Thickness by Elcometer
Soil & Rock Field Test	California Bearing Ratio (Field CBR) Dynamic Cone Penetrometer test Electrical Resistivity by Wenner's Four Electrode method (ERT) Modulus of Subgrade Reaction, K Value Pile Lateral load test Pile Pull-out test Pile Vertical load test (Compression) Plate Load Test Standard Penetration test	Soil & Rock Field Test	California Bearing Ratio (Field CBR) Dynamic Cone Penetrometer test Electrical Resistivity by Wenner's Four Electrode method (ERT) Modulus of Subgrade Reaction, K Value Pile Lateral load test Pile Pull-out test Pile Vertical load test (Compression) Plate Load Test Standard Penetration test
Soil Field Test	Field Density by Core cutter method Field Density by Sand Replacement	Soil Field Test	Field Density by Core cutter method Field Density by Sand Replacement
RCC Structure	Determination of Crack Depth	RCC Structure	Determination of Crack Depth
Reinforced Concrete Structures	Carbonation Test Half Cell Potential test Rebound Hammer	Reinforced Concrete Structures	Carbonation Test Half Cell Potential test Rebound Hammer
Reinforced Concrete Structures/Granite (Structural & Polished) / Marble / Kota Stone /)	Ultrasonic Pulse Velocity	Reinforced Concrete Structures/Granite (Structural & Polished) / Marble / Kota Stone /)	Ultrasonic Pulse Velocity

અગાઉ સરકારશ્રી દ્વારા જે ટેસ્ટની માન્યતા આપવામાં આવેલ હતી તેમાં જેટલાના એનએબીએલ સર્ટીફિકેટની માન્યતા તમોએ રજુ કરેલ છે તેટલા ટેસ્ટ પૂરતી જ તમોને માન્યતા આપવામાં આવે છે, માન્યતા આપવામાં આવેલ ટેસ્ટની વિગતો ઉપર દર્શાવેલ છે તે સિવાયના ટેસ્ટની માન્યતા રદ કરવામાં આવે છે જે ધ્યાને લેવા વિનંતી છે.

અગાઉ આપેલ મંજૂરીની શરતો યથાવત રહેશે.

પધુમાં જણાવવાનું કે, આપશ્રીની લેબોરેટરીમાં જે ટેસ્ટ થાય છે તેનો ત્રિમાસિક અહેવાલ સંશોધન અધિકારી, ગેરી, વડોદરાને મોકલી આપવા જણાવવામાં આવે છે.

સરકારશ્રીમાં તા. ૨૦/૧૨/૨૦૨૪ના રોજ મળેલ બેઠકમાં નીચે મુજબની શરતો આ માન્યતા આપવામાં આવેલ છે. જેનો યુસ્તપણે અમલ કરવાનો રહેશે.

મંજૂરીની શરત :— આપની લેબોરેટરી દ્વારા માલ સામાનના પરીક્ષણના નમૂના માટે ઓન લાઈન પ્રક્રિયાનું યુસ્તપણે પાલન કરવાનું રહેશે. અન્યથા લેબોરેટરીની માન્યતા રદ કરવામાં આવશે.

કાર્યપાલક ઈજનેર
અમદાવાદ (મા. x મ.) વિભાગ
અમદાવાદ

નકલ સાદર રવાના પ્રતિ

ઉપસચિવશ્રી, (રા. ર.)—૨, ૧૪/૨, માર્ગ અને મકાન વિભાગ, નવા સચિવાલય, ગાંધીનગર તરફ જાણ સારું.

Laboratory Approval Letter

નકલ સાદર રવાના પ્રતિ :

- (૧) અધિક્ષક ઈજનેરશ્રી, માર્ગ અને મકાન વર્તુળ, અમદાવાદ તરફ જાણ સારુ.
- (૨) અધિક્ષક ઈજનેરશ્રી, માર્ગ અને મકાન વર્તુળ, સર્કીટ હાઉસની સામે, મહેસાણા હાઈવે, મહેસાણા-૩૮૪૦૦૨ તરફ જાણ સારુ.
- (૩) અધિક્ષક ઈજનેરશ્રી, અમદાવાદ શહેર (માર્ગ અને મકાન) વર્તુળ, અમદાવાદ તરફ જાણ સારુ.
- (૪) અધિક્ષક ઈજનેરશ્રી, પંચાયત (માર્ગ અને મકાન) વર્તુળ, અમદાવાદ તરફ જાણ સારુ.
- (૫) અધિક્ષક ઈજનેરશ્રી, આલેખન (માર્ગ અને મકાન) વર્તુળ, બ્લોક-૧૩, પ્રથમ માળ, જૂના સચિવાલય, ગાંધીનગર-૩૮૨૦૧૦ તરફ જાણ સારુ.
- (૬) અધિક્ષક ઈજનેરશ્રી, પાટનગર યોજના વર્તુળ, ડો.જીવરાજ મહેતા ભવન, બ્લોક-૧૧, બીજો માળ, જૂના સચિવાલય, ગાંધીનગર-૩૮૨૦૧૦ તરફ જાણ સારુ.
- (૭) અધિક્ષક ઈજનેરશ્રી, રાષ્ટ્રીય ધોરી માર્ગ વર્તુળ, પાટનગર યોજના ભવન, સેક્ટર-૧૬, ગાંધીનગર-૩૮૨૦૧૦ તરફ જાણ સારુ.
- (૮) અધિક્ષક ઈજનેરશ્રી, પંચાયત (માર્ગ અને મકાન) વર્તુળ, પાટનગર યોજના ભવન, સેક્ટર-૧૬, ગાંધીનગર-૩૮૨૦૧૦ તરફ જાણ સારુ.
- (૯) અધિક્ષક ઈજનેરશ્રી, વડોદરા (માર્ગ અને મકાન) વર્તુળ, નવી કોઠી બીલ્ડીંગ, વેસ્ટ વીંગ, વડોદરા તરફ જાણ સારુ.
- (૧૦) અધિક્ષક ઈજનેરશ્રી, પંચાયત (માર્ગ અને મકાન) વર્તુળ, 'ત્રીજો માળ, 'સી' બ્લોક, નર્મદા ભવન, વડોદરા તરફ જાણ સારુ.
- (૧૧) અધિક્ષક ઈજનેરશ્રી, રાષ્ટ્રીય ધોરીમાર્ગ વર્તુળ, ૭૧૩, ૭ મો માળ, ઈ-બ્લોક, કુબેરભવન, કોઠી કેમ્પસ, રાવપુરા, વડોદરા - ૩૯૦૦૦૧ તરફ જાણ સારુ.
- (૧૨) અધિક્ષક ઈજનેરશ્રી, માર્ગ અને મકાન વર્તુળ, દયાબજારી બાગની સામે, નાનપુરા, સુરત-૩૯૫૦૦૧ તરફ જાણ સારુ.
- (૧૩) અધિક્ષક ઈજનેરશ્રી, પંચાયત (માર્ગ અને મકાન) વર્તુળ, દયાબજારી બાગની સામે, નાનપુરા, સુરત-૩૯૫૦૦૧ તરફ જાણ સારુ.
- (૧૪) અધિક્ષક ઈજનેરશ્રી, માર્ગ અને મકાન વર્તુળ નં. ૧, ડો. રાજેન્દ્રપ્રસાદ રોડ, રાજકોટ-૩૬૦૦૦૧ તરફ જાણ સારુ.
- (૧૫) અધિક્ષક ઈજનેરશ્રી, માર્ગ અને મકાન વર્તુળ નં. ૨, ૧/૭, બહુમાળી ભવન, રેસકોર્સ રોડ, રાજકોટ-૩૬૦૦૦૧ તરફ જાણ સારુ.
- (૧૬) અધિક્ષક ઈજનેરશ્રી, પંચાયત (માર્ગ અને મકાન) વર્તુળ નં. ૧, ૧/૫, બહુમાળી ભવન, રેસકોર્સ રોડ, રાજકોટ-૩૬૦૦૦૧ તરફ જાણ સારુ.
- (૧૭) અધિક્ષક ઈજનેરશ્રી, પંચાયત (માર્ગ અને મકાન) વર્તુળ નં. ૨, ગાલ્સફોર્ડ ટોકીઝની સામે, માંગરોળ હાઉસ, રાજકોટ-૩૬૦૦૦૧ તરફ જાણ સારુ.
- (૧૮) અધિક્ષક ઈજનેરશ્રી, પ્રોજેક્ટ ઈમ્પ્લીમેન્ટેશન યુનિટ, ભોંયતળિયે, નિર્માણ ભવન, સેક્ટર-૧૦-એ, ગાંધીનગર-૩૮૨૦૧૦ તરફ જાણ સારુ.
- (૧૯) સંયુક્ત નિયામકશ્રી (રસ્તા), ગુજરાત ઈજનેરી સંશોધન સંસ્થા, રેસકોસ, વડોદરા-૩૯૦૦૦૭ તરફ જાણ સારુ. (બાય આરપીએડી)

નકલ સવિનય રવાના :

પ્રતિ, સંશોધન અધિકારીશ્રી, માગ સંશોધન વિભાગ નં. ૧, ગેરી, રેસકોસ, વડોદરા-૩૯૦૦૦૭ તરફ જાણ સારુ (બાય આરપીએડી)

નકલ રવાના પ્રતિ,

નાયબ કાર્યપાલક ઈજનેરશ્રી, માર્ગ અને મકાન પેટાવિભાગ નં. ૧, ૨, અમદાવાદ, ધોળકા, ધંધુકા, વિરમગામ તરફ જાણ સારુ