

Testing | Calibration | Validation | Mapping | Inspection Services



## **RAJKOT METLAB SERVICES LLP**

Testing Today, Protecting Tomorrow

"Rajkot Lab", Plot No. 29-30, NH-27, Gondal Highway, Near Tulip Party Plot, Survey No. 33, Vavdi, Rajkot, Gujarat 360004.

97252 13600 / 601 / 602 | www.rajkotlab.com | testing@rajkotlab.com

Rajkot Lab Gate NH27, Opp JCB Showroom, Nr. Tulip Party Plot, B/h Perfect Maruti Showroom, Vavdi, Rajkot, Gujarat 360004, India



### **About Us**

RAJKOT METLAB SERVICES LLP was founded by an experienced techno-craft having in Depth knowledge & Experience in the field of Construction Building Materials, Road Construction Materials & Metallurgical Tastings and Calibration of instruments to provide service to the Industries.

The Laboratory has implemented Quality Management System in line with the requirements of ISO/IEC 17025:2017 & ISO 9001:2015. We accredited by NABL (NATIONAL ACCREDITATION BOARD FOR TESTING & CALIBRATION LABORATORIES). And we have registered & empanelled in many Government & Private Organizations (Like R&B, GIDC, AAI, MES, NHAI, WR, CPWD etc.)

Our More than 6000 clients from diversified and reputed public and private sector have shown trust on our services. At well qualified, educated, trained and experienced team is always working towards achieving pick of the rigorous requirements of standards and codes to the satisfaction of client and the accreditations received resembles the all.

### **Our Vision**

To become the world's most trusted testing/calibration partner

### **Our Mission**

To be the best testing/calibration partner in the world

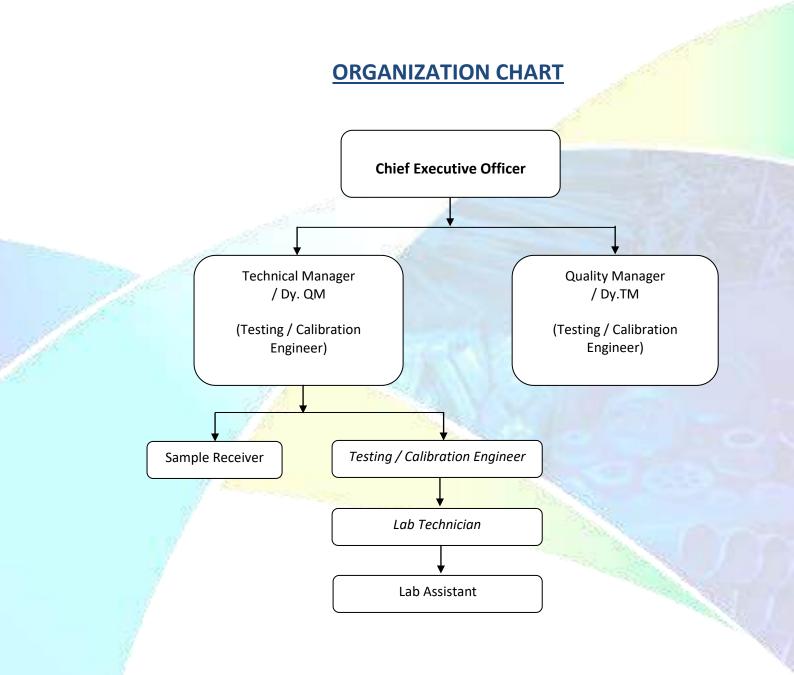
### **Our Value**

We have four clear values that we live by each & every day



LEGAL STATUS				
01.	Name of Laboratory	Rajkot Metlab Services LLP		
02.	Address	Rajkot Lab Gate NH27, Opp JCB Showroom, Nr. Tulip Party Plot, B/h Perfect Maruti Showroom, Vavdi, Rajkot, Gujarat 360004, India		
Means of		Mobile: +91 97252 13600		
03.	communication	E-mail ld: account@rajkotlab.com & testing@rajkotlab.com		
04.	Managed and controlled by		Mr. Ankur Trada & Kuldip Sindhav 97252 13601 & 97252 13602	
05.	Bank Details	HDFC Bank, Vavdi, Rajkot Branch Current A/C: 50200007079712 IFSC Code: HDFC0003101, MICR: 360240014		
06.	Type of Firm	Limited Liability Partnership (LLP)		
	Legal Status	GST	24AARFR2036E1ZC	
07.		PAN	AARFR2036E	
07.		LLPIN	ACD-5778	
		Udyam Reg. No	UDYAM-GJ-20-0032950 (Micro)	
08.	Core competence	Material testing and Calibration of Instruments.		
09.	Test Method	As per International Standards (I.e. IS, ASTM, BS, ASME, EN etc)		
10.	Working environment	Dynamic and Peaceful		
11.	Customer	Government and Private sectors.		
12.	Input to laboratory	Sample of metals, Construction Building Materials, Instruments		
13.	Output from the laboratory	Test Reports and consultancy Service to Customer		
14.	Customer care	Customer emergencies are attended on priority.		





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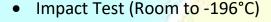
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### TESTING FACILITY FOR METAL INDUSTRIES

**Chemical Analysis by Spectrometer** (Fe, Cu, Al, Ni, Zn, Pb, Sn, Mg, Ti, Co Base)



- Tensile Test
- Proof Load of Fasteners / Products
- Compression Test
- Bend Test / Re-Bend Test
- Nick Break test
- Transverse Testing
- Fillet Fracture Test
- Flaring Test, Drift-expanding test
- Flattening Test
- Shear Test





Micro structure Examination



Carbon Steel, Low alloy Steel

Grain size Determination

SGI / CI (Distribution, Type, Size Class, Nodule Count, Nodularity)

Bearing Steel (Micro, FA, CG, PA, CN, CZ)

Case Depth, Decarburizing Depth, Thickness

Inclusion Rating (ASTM E45 Method A)

Stainless Steel, Other Alloys

Phase Analysis as per E562

ASTM A923 Method-A

Phase Analysis as per Sigma, Chi, Lave Phase





Salt Spray Test, as Per IS, ASTM, Etc.



- IGC Test as per ASTM A262 Practice A, B, C, E & F
- Corrosion Test as per ASTM G-28, Method A / B



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•	Pitting /	Crevice	Corrosion	Test (G48	A & B	/A923-C),
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Rockwell

Critical pitting temperature test as per ASTM G48 Method E



Hardness Test

NOCKWEII	
Brinell	
Vickers	
Jominy End Quenched test	1



Hydrostatic Pressure Test Up to 300/600/800/1300 Bar



- Coating Thickness
- Adhesion Test
- Uniformity of coating
- Mass of Zinc Coating

**EQT**, Electrode Qualification



- Welding Procedure Qualification Tests As per IS, ASTM, ASME, ISO, BS EN
  - Fillet Fracture / Nick Break Test
  - Face, Side & Root Bend
  - Tensile, Macro, Micro
  - Hardness
- Paint / Emulson Testing
  - Adhesion by Reverse Impact Resistance Test
  - Adhesion by Tape Test, Cross-cut test, X Cut Test
  - Adhesion by T-bend test
  - Coating Thickness DFT
  - **Effect of Household Chemicals**
  - Film Hardness by Pencil Test
  - Gloss / Impact / Scratch Hardness Test
  - Water Content / Viscosity
  - Mass per 10 Ltr









Metrology Testings as per National / International Standard **CMM Testing Facality** 





Rajkot Lab Gate NH27, Opp JCB Showroom, Nr. Tulip Party Plot, B/h Perfect Maruti Showroom, Vavdi, Rajkot, Gujarat 360004, India

### **TESTING FACILITY FOR BUILDING / ROAD CONSTRUCTION MATERIALS**

	,,693
Item	Test Parameter
Steel / Rebar Coupler	<ul> <li>Tensile Test of <u>TMT</u> Bar for % Elongation, Yield Stress, Ultimate Tensile Stress, Mass per Meter</li> <li>Tensile Test Of Structure Steel</li> <li><u>Bend</u> Test</li> <li><u>Re-bend</u> Test</li> <li><u>Chemical Analysis</u> (C, Si, Mn, P, S, Cr, Ni, Mo, Al, Cu)</li> </ul>
Cement / Fly Ash	<ul> <li>Chemical Test</li> <li>Compressive Strength</li> <li>Consistency</li> <li>Fineness by Dry Sieving</li> <li>Fineness by Wet Sieving</li> <li>Setting Time (Initial, Final)</li> <li>Soundness by Le-Chatlier Test</li> <li>Specific Surface by Blaine's Permeability</li> </ul>
GGBS	<ul> <li>Compressive Strength</li> <li>Moisture Content</li> <li>Setting Time (Initial, Final)</li> <li>Soundness By Le Chatlier Test</li> <li>Specific Surface (By Blaine's Permeability)</li> <li>Chemical Test</li> </ul>
Admixture	<ul> <li>Ash content</li> <li>Chloride ion content</li> <li>Dry material content</li> <li>pH</li> <li>Relative density</li> </ul>
Bricks	<ul> <li>Compressive Strength</li> <li>Dimensions</li> <li>Efflorescence</li> <li>Water Absorption</li> </ul>



	Abrasion Value	
	Bulk Density	
	Elongation Index	
	Flakiness Index	
	Crushing Value	<b>建业会员中</b> 农
	Silt Content	
	Alkali Aggregate Reactivity	
Aggregates	Gradation With Fineness Modulus	
	Impact Value	
	Specific Gravity	
	Bulking Of Sand	Makana la
	10% Fine Value	25 /20 /20 /20
	Water Absorption	
	Organic / Inorganic Content	
	Chemical Tests	
	Petrography Examination	
	RCPT (Rapid Chloride Penetration Test)	
	Split Tensile Test	
	Water Penetration / Permeability of Concrete	
	• Flow	
	Slump test	
Concrete	Moisture Movement	860 1
	Flexural Strength	
1.6	Compressive Strength ( Normal / Accelerated Cured )	
	Setting Time	THE PARTY OF THE P
P P	Bleeding	
11 97	Moisture Content	
	Density	
7	Flush Door Tests	
1.9	Tensile strength Test	
3	Flexural Test / Static Banding Strength	
	Specific Gravity	
2	Compressive Strength	
78	Shear Strength Test	
Timber, Wood, Flush	Impact Indentation Test	
Door, Plywood etc.	Edge Loading Test	
Door, Trywood etc.	Shock Resistance Test	
y y		
j j	<ul><li>Buckling resistance Test</li><li>Slamming Test</li></ul>	
17/	Misuse Test	
- 1		
N N	End Immersion Test     White Test	
T T	Knife Test     Clue Adhesian Test	7
	Glue Adhesion Test     Seron Withdrawal test	
	Screw Withdrawal test	



	Ductility Test	
	Flash & Fire Point	
	Penetration Test	
	Softening Point Test	
D'1	Specific Gravity	
Bitumen	Water Content Test	
	Kinematic Viscosity	
	Absolute Viscosity	A STATE OF THE PARTY OF THE PAR
	Say bolt Viscosity	
	Theoretical Maximum Specific Gravity	
	Water Absorption	
	Modules Of Rupture (MOR)	
	Chemical Resistance	
	Scratch Hardness	
Tiles	Straightness of Sides / Surface Flatness	
J. P. Commission of the Commis	Thermal Shock Resistance	
	Dimensions	
	Tile Adhesion Test ( Field Test + Lab Test )	
	• Thickness	
	Density	
	% of Bitumen Contain	Sal Bridge William Will
Bitumen Core	Marshal Stability / Flow Value	Ser Viscoti
	Void Contain	unum variation in the same of
1.0	VFB / VIM	
	Bitumen Core Cutting	The state of the s
· · · · · · · · · · · · · · · · · · ·	Abrasion Resistance	
1.97	Compressive Strength	
Hollow / Solid /	Water Absorption	
Paver Blocks	Density	
(AAC, CLC etc.)	Moisture Movement	
Kerb Stone	Drying Shrinkage	HI THE
30	Splitting Tensile Strength	
3	Freeze Thaw Test	
30	Mix Design Of Concrete	Water
N <sub>A</sub>	Mix Design Of Pavement Quality Concrete (PQC)	Admixtures SCM's
	Mix Design Of Dry Lean Concrete (DLC)	
18	Mix Design Of Concrete Using Flyash	Fina Aggragate
NA: 5	Mix Design Of Self Compacted Concrete	Coana Age
Mix Design	Mix Design Of Dense Bitumen M. D.	
1//	Mix Design For GSB, WMM	
W	Bituminous Concrete Mix Design (BC, SDBC, DBM)	
2		



	Gradation by Sieve Analysis & Hydrometer Analysis
	Specific Gravity
	Atterberg's Limits
	Standard / Modified Procter Test ( MDD/OMC)
	Free Swell
	Shrinkage Limit
	C.B.R. Test In Laboratory (Soaked / Unsoaked)
Soil Laboratory Tests	Direct Shear (Box shear) Test
	Swell Pressure
	Consolidation
	Unconfined Compressive strength
	Chemical Tests
	Triaxial Shear Test
Part of the second	Vane Shear Test
	Permeability Test
J. 18	MDD By Sand Replacement
	MDD By Core Cutter
	Standard Penetration Test (SPT)
6 1151 117	Soil Bearing Capacity (SBC)
Soil Field Tests	Plate Load test (EV2)
	Soil Investigation by Hydraulic / calyx Rig Machine
	Electrical Resistivity Test (ERT)
	Thermal Resistivity Test (TRT)
3	Compressive Strength Test
237	Moisture Content / Water Content by Wet / Vacuum method
	Point Load Index
Rock / Natural Stone,	• Density
Granite, Kota Stone	Hardness
etc.	Specific Gravity / Apparent Specific Gravity
Ctc.	Porosity
	Visual Inspection (Texture & Cracks)
38	Split Tensile Test
	Resistance to Wear
W	Atterberg's Limits
y y	C.B.R. Test In Laboratory (Soaked)
Granular	Modified Procter Test ( MDD/OMC)
Sub base	Sieve Analysis
- V	Water Absorption
	• 10% Fine Value

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NDT Tests	<ul> <li>Structural fitness Survey</li> <li>Rebound Hammer Test</li> <li>Ultrasonic Pulse Velocity Test (UPV)</li> <li>Concrete Core Drilling</li> <li>Carbonation Test</li> <li>Half Cell Potential</li> </ul>
Field Tests	<ul> <li>Pile Integrity Test</li> <li>Pull Out Test</li> <li>Pile Load test (Vertical, Lateral &amp; Pull Out)</li> <li>Bridge Load Test</li> <li>Plate Load Test</li> <li>Sub Grade Reaction K Value Test</li> <li>Banquet Beam Deflection Test</li> <li>Span Load Test</li> </ul>
Wet Mix Macadam / Quarry Spaul	<ul> <li>Atterberg's Limits</li> <li>Combined Flakiness &amp; Elongation</li> <li>Impact Value</li> <li>C.B.R. Test In Laboratory (Soaked)</li> <li>Modified Procter Test (MDD/OMC)</li> <li>Sieve Analysis</li> <li>Abrasion Value</li> <li>Specific Gravity &amp; Water Absorption</li> <li>Elongation Index</li> <li>Flakiness Index</li> </ul>
Aluminum Section	<ul> <li>Anodizing Thickness</li> <li>Powder Coating Thickness</li> <li>Size And Thickness Test</li> <li>Weight Per Section</li> <li>Tensile Test</li> <li>Sample Preparation For Tensile Test</li> <li>Grade identification</li> </ul>
Pipe / Duct	<ul> <li>Stoneware Pipe</li> <li>Ducting Pipe</li> <li>Precast Concrete Hume Pipes</li> <li>PVC Pipe</li> <li>Scaffolding Pipe</li> <li>Steel / MS Pipe</li> <li>Sheathing Duct</li> </ul>

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Geo Composite / Textile / ParaWeb Gostrap / HDPE / PTFE / PE / **Rubber Sheet** 

- Thickness @ 2kpa
- Mass per Unit
- Wide Width Tensile Strength MD / CMD
- **CBR Puncture Strength**
- In Plane Flow Capacity @ 100/200 Kpa
- AOS Apparent opening size
- **Breaking Load & Elongation**
- **Density and Specific Gravity**
- **Grab Tensile Test Method**
- Puncture Resistance by falling cone method
- **Puncture Resistance**
- Trapezoid Tearing Strength
- Manhole Cover
- Metal Beam Crash Barrier (MBCB)
- **Emulsion**
- Kerb Stone
- **Paints**
- **Paraweb**
- Rope
- Sealants

- **Foundation Bolt**
- GI Barbed Wire
- **Anti-Stripping Agents**
- Gypsum
- Performed Filler
- Plaster of Paris
- **Pull-Out Test Anchors**
- Structural bearings

- Anchor Cone & Wedge
- Adhesives
- Curing compound
- **Foundry Sand**
- Glass Bead
- Polyethylene Films and Sheets
- Precast Concrete Hume Pipes
- Water Stoper

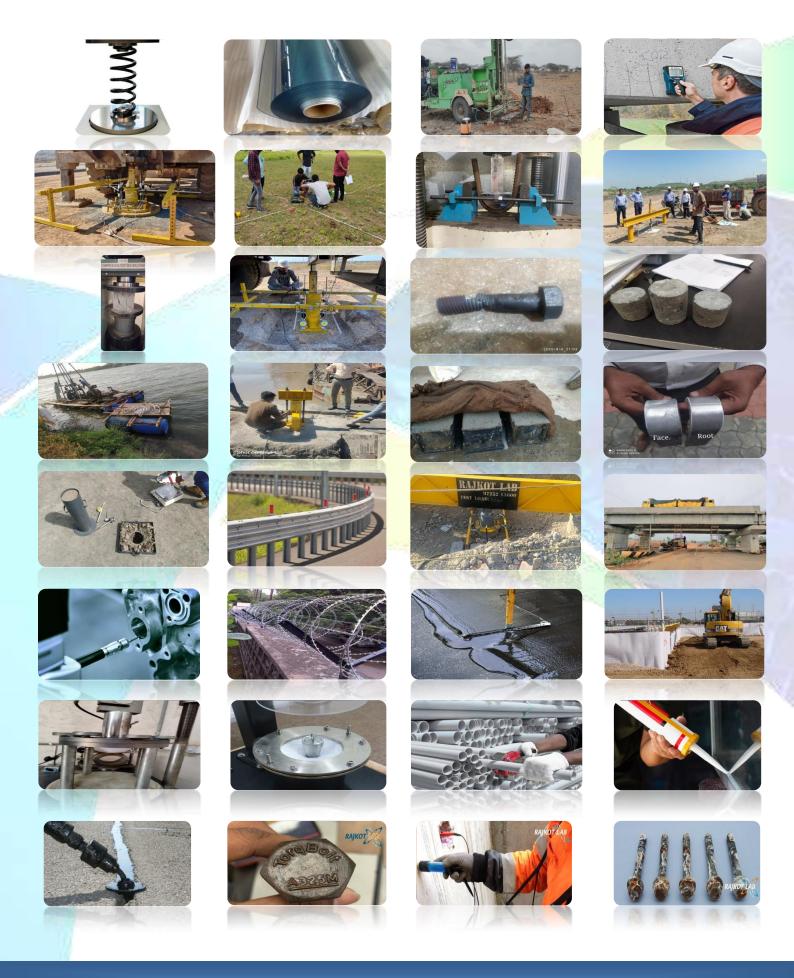








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### **INSTRUMENT CALIBRATION FACILITY**

Vernier Calipers ( Dial, Digital, Plain )	Up to 2000 mm	
External Micrometer	Up to 2000 mm	0
Depth Gauge	Up to 1000 mm	HOS.
Internal Micrometer	Up to 2100 mm	
Inside Dial Caliper	Up to 200 mm	
Outside Dial Caliper / Pistol Caliper	Up to 50 mm	A
Height Gauge	Up to 1000 mm	
Plain Plug Gauge / Plain Ring Gauge / Key Way Plug Gauge / Limit Gauge / Air Plug Gauge	Up to 500 mm	11/4
Master Block for Ultrasonic Thk / Step Gauge	Up to 10 mm	VIII.O
Thread Plug Gauge / Thread Ring Gauge	Up to 250 mm	
Taper Thread Plug / Ring Gauge	Up to 100 mm	<b>T</b>
Snap / Gap Gauge	Up to 300 mm	



Dial Gauge (Plunger), LC 0.1/1 μm	Up to 50 mm
Dial Gauge (Lever)	Up to 0.8 mm
Bore Gauge without Dial	Up to 300 mm
Micrometer Setting Standard	Up to 1975 mm
Pin Gauge / Measuring Pin	Up to 20 mm
Feeler Gauge	Up to 2 mm
Measuring Scale	Up to 2000 mm
Measuring Tape	Up to 50 mtr
Pie Tape	Up to 3 mtr
Surface Plate	Up to 3000 mm
Standard Thickness Foil (Set)	Up to 5000 μm
Ultrasonic Thickness Gauge	Up to 300 mm
Coating Thickness Gauge / Elcometer	Up to 2000 μm
Bevel Protector / Combination Set	0 to 90 to 0 °



Inclinometer / Clinometer	0 to 90 to 0 °
Comparator Stand	300 x 300 mm
Test Sieves	Up to 125 mm
Cube Mould	Up to 150 mm
Hegman Gauge	0 to 110 μm
Weld Gauge	Full Range
Wet Film Thickness Gauge	Full Range
Mould (Beam / Proctors / CBR / Crushing / Al / Permeability)	Up to 750 mm
Flakiness Gauge / Elongation Gauge	Full Range
Spirit level	Full Range
Electronic Level LC: 1 / 10 μm/m	Up to 5 mm/m
Engineering Square / Try Square / Right Angle	Up to 1000 mm
Glass Scale / Grid	Up to 10 mm
Thread Measuring Wires	Up to 20 mm



Profile Projector / Microscope / VMM	Full Range
Dial Calibration Tester / Micrometer Head	Full Range
Length Bar / Long Gauge Block	Up to 1500 mm
Slip Gauge Block	Up to 100 mm
Extensometer	Up to 600 mm
Extensometer Calibration Fixture	Up to 10 mm
Co-ordinate Measuring Machine (CMM)	Up to 1500 mm
Radius standards / Reference Sphere, Steel Ball	Up to 30 mm
Surface Roughness Tester	Full Range
Electronic Height Gauge (2D)	Up to 1500 mm
Pressure / Vacuum Gauge / Transmitter	-1 to 1000 bar
Micro Balance LC: 0.001 mg	up to 21 g
Semi Micro/ Analytical Balance LC: 0.01 / 0.1 mg	up to 220 g
Precision Balance LC: 1/10 mg	up to 3 kg
Medium Balance LC: 0.1 / 1 g	up to 50 kg
Ordinary Balance LC: 10 / 20 / 50 / 100 g	up to 700 kg
Weight	F1, F2, M1, M2, M3
Micro Pipette	Up to 6000 μl



Glassware's (Measuring Cylinder / Flask / Burette / Pipette etc.)	Up to 5000 ml	
Proving Ring / Load Cell	Up to 200 kN	<b>\$</b>
Rockwell Hardness Tester ASTM / IS / ISO	HRA / HRBW / HRC	D
Brinell Hardness Tester ASTM / IS / ISO	5/750 HBW / 10/3000 HBW	
Vickers Hardness Tester ASTM & IS / ISO	HV5, HV10	- State -
Micro Vickers Hardness Tester	HV0.3, HV1	
Indentation Measuring System of Brinell / Vickers	Full Range	O STATE
Testing Cycle of Hardness Testing Machines	Full Range	
Universal Testing Machine (UTM), Compression Mode	Up to 1000 kN	
Universal Testing Machine (UTM), Tension Mode	Up to 200 kN	
Compression Testing Machine (CTM)	Up to 2000 kN	
CBR, Marshal, Direct Shear, FTM, Tri-Axial etc.	Up to 100 kN	
Shore Hardness	A/D	P
Portable / Leeb Hardness	Full Range	



Torque Tools	up to 2000 Nm	
Charpy / Izod Impact Machine	ASTM / IS	
Volt Meter	0-1000 V AC/DC	Turning T
Ampere Meter	0-1000 A AC/DC	300 450
Frequency Meter	Up To 10 KHz	
Ohm Meter	Full Range	600
Micro-Ohm Meter	Full Range	
Multimeter	IVR	
Clamp meter	IVR	9
Decade Resistance Box	0-1000 GΩ	DOMESTICAL DEL
High Voltage Tester / Spark Tester	Up to 15 KV	
Megger / Insulation Tester	Full Range	445, Magar
Stop Watch / Timer / Calibrator	1 Sec to 86400 sec	
Temperature Controller / Indicator (RTD, Pt100, J, K, S, R, T, E, S, N, B)	All Type	CONTROLLER  BOO T
Thermometer	Full Range	853
Temperature Gauge / Temperature Transmitter	Full Range	



Temperature Sensor / Thermocouple	All Type Full Range
Thermo Hygrometer / Wireless Data Logger	Full Range
Humidity Chamber	Full Range
Universal Data Logger	Full Range
Infrared Thermometer / Pyrometer	50 to 1000 °C
Muffle Furnace / Water Bath / Temperature Bath	Amb. to 1200°C
Heat Treatment Furnace	150 to 1200°C
Tachometer or RPM Source	10 to 99999 rpm
Sound Level Meter	94 dB to 114 dB
Anemometer	up to 100 mph
Lux Meter, UV Light Meter	0 to 100000 Lux
Rebound Hammer / Anvil	20 to 70
UPV Machine / UPV Reference Blocks	Full Range
Viscosity U Tubes	6, 12, 13 No



Vicat Apparatus	Full Range
Aggregate Impact Apparatus	Full Range
Penetrometer	Full Range
pH Meter	4 to 14 pH
Conductivity Meter	0.05 to 12880 μS/cm
UV / Black Light	Full Range
Magnetic Yoke	Full Range
Gauss Meter	Full Range
UV Meter	Full Range
Pie Gauge	Full Range
Centrifuge Tube	Full Range
Weight Lifting Plate	Full Range
Densitometer	Full Range
RT Viewer	Full Range
UT Machine	Full Range
V1 Block	Full Range
V2 Block	Full Range
DAC Block	Full Range



C	lient list
ABB Ltd.	Leap India Food and Logistics Pvt. Ltd.
Adani Gas Limited	Mahindra CIE
Afcons Infrastructure Ltd.	Military Engineering Services
Air Force Station, Jamanagar	Millennium Ring Mfg. Co.
Airport Authority of India	Mosdorfer India Pvt. Ltd.
Ampo valves india pvt ltd	Nayara Energy Limited
Arrow Techno Cast (Guj.) Pvt. Ltd.	NBC Bearing
Atal Sarovar	Nimit Steels & Alloys Pvt Ltd
Atmiya Collage	ONGC
Atul Auto Limited	Orbit Bearing
Austin Alloy Cast Pvt Ltd.	Power Grid Corporation India Ltd.
Bajaj Auto Ltd.	Powerica Limited
BARC	Rajkot Municipal Corporation (RMC)
Bhavani Industries	Ravi Technoforge Pvt. Ltd.
BHEL	Reliance Industries Ltd.
BHPV	Reliance Project Pvt. Ltd.
Darshan Engineering College	Reliance Retail Ltd
Deen Dayal Port	RITES Ltd.
DGS & D	Sauni yojna
Dilip Buildcon Limited	Sendura Forge Pvt Ltd
Dunex Architectural Pvt. Ltd.	Shakti Heat-treaters & Engineers
Emerson Process Management India Pvt Ltd	Shapoorji Pallonji And Company Private Limited
Engineers India Ltd (EIL)	Silver Engineering Co.
Essar Construction Ltd.	Singhal Power Presses Pvt. Ltd.
Essar Projects Ltd.	SKF Bearings
FAG Bearings	Sun Forge Private Limited
Gail India ltd	Suzlon Energy Limited
Gujarat Electricity Board (GEB)	Tarmat Ltd.
Gujarat Gas Ltd	Tata bearings
Gujarat Intrux Ltd	Tata Project Limited (TPL)
Gujarat State Petronet Company Limited (GSPCL)	Tata Projects
Gujrat Forgings Pvt Ltd	Tirth Agro Technology Pvt. Ltd.
Hindustan Petroleum Corporation Limited	Torrent Solargen Ltd.



Client list					
HPCL Shapoorji Energy (HSEPL)	Toyo Engineering India Ltd.				
Indian Naval Ship, Valsura	TRELINDIA Pvt Ltd				
Indo-German Industries	Unique Forge Pvt. Ltd.				
INOX Wind Limited	Vijaya Mettalica Incorporated				
Intech Forge (India) Pvt.Ltd.	Vishal Bearings Pvt. Ltd.				
Intervalve poonawalla ltd	Western Railways				
Intricast Pvt Ltd	Kalaria Forge Pvt. Ltd.				
ISK Bearing Industries	KCI Bearings (India) Private Limited				
JK Laxmi Cement Ltd	Kich Architectural Product Pvt. Ltd.				
Jyoti Automation Pvt. Ltd.	Larsen & Toubro Ltd.				



## GOVERNMENT OF INDIA MINISTRY OF CORPORATE AFFAIRS

Central Registration Centre

Form 19

[Refer Rule 32(1) of the LLP Rules, 2009]

**Certificate of Registration on Conversion** 

OF

RAJKOT METLAB SERVICES

TO

RAJKOT METLAB SERVICES LLP

LLP Identification Number: ACD-5778

The Permanent Account Number (PAN) of the LLP is AARFR2036E\*

The Tax Deduction and Collection Account Number (TAN) of the LLP is null\*

It is hereby certified that RAJKOT METLAB SERVICES LLP is this day registered pursuant to section 58(1) of the LLP Act 2008.

Given under my hand at Manesar this TWENTY THIRD day of OCTOBER TWO THOUSAND TWENTY THREE

CORPORATE AFFAIRS 10 COMMON CORPORATE AFFAIRS 10 COMMON CORPORATE AFFAIRS 10 COMMON COMMON CORPORATE AFFAIRS 10 COMMON CORPORATE AFFAIRS 10 COMMON CO

Digitally signed by DS MINISTRY OF CORPORATE

AFFAIRS 10

Date: 2023.10.23 22:38:33 IST

Binny Kapoor Assistant Registrar of Companies/ Deputy Registrar of Companies/ Registrar of Companies For and on behalf of the Jurisdictional Registrar of Companies Registrar of Companies Central Registration Centre

Disclaimer: This certificate only evidences incorporation of the LLP on the basis of documents and declarations of the applicant(s). This certificate is neither a license nor permission to conduct business or solicit deposits or funds from public. Permission of sector regulator is necessary wherever required. Registration status and other details of the LLP can be verified on mca.gov.in

Mailing Address as per record available in Registrar of Companies office:

RAJKOT METLAB SERVICES LLP

PL 29 30 NR TULIP PARTI P, GONDAL ROAD VAVDI, Vavdi, VAVDI POLICE STATION, Rajkot, Rajkot- 360004, Gujarat, India

\*as issued by Income tax Department





### Government of India Form GST REG-06

[See Rule 10(1)]

### **Registration Certificate**

**Registration Number :24AARFR2036E1ZC** 

1.	Legal Name	RAJKOT I	RAJKOT METLAB SERVICES LLP				
2.	Trade Name, if any	RAJKOT N	RAJKOT METLAB SERVICES LLP				
3.	Additional trade names, if any		6				
4.	Constitution of Business	Limited Lia	ability Partnership				
5.	Address of Principal Place of Business	Floor No.: - Building No./Flat No.: R.S No.33, Plot No.29 and 30 Name Of Premises/Building: B/h Perfect Showroom Road/Street: National Highway 27 Gondal Road Nearby Landmark: Near Tulip Party Plot, Opp. JCB Showroom Locality/Sub Locality: Vavdi City/Town/Village: Rajkot District: Rajkot State: Gujarat PIN Code: 360004					
6.	Date of Liability	01/07/201	7				
7.	Date of Validity	From	01/07/2017	То	Not Applicable		
8.	Type of Registration	Regular					
9.	Particulars of Approving	Gujarat G	oods and Services Tax	Act, 2017			
Sign	ature						

## Nome IZA IAL DUIDUDU

Name	KAJAL DHIRUBHAI ZALA
Designation	State Tax Officer
Jurisdictional Office	Ghatak 93 (Rajkot)
Date of issue of Certificate	11/01/2024

Note: The registration certificate is required to be prominently displayed at all places of Business/Office(s) in the State.

This is a system generated digitally signed Registration Certificate issued based on the approval of application granted on 11/01/2024 by the jurisdictional authority.



Goods and Services Tax Identification Number: 24AARFR2036E1ZC

**Details of Additional Place of Business(s)** 

Legal Name RAJKOT METLAB SERVICES LLP

Trade Name, if any RAJKOT METLAB SERVICES LLP

Additional trade names, if

any

Total Number of Additional Places of Business(s) in the State

(



### Goods and Services Tax Identification Number: 24AARFR2036E1ZC

Resident of State

Legal Name RAJKOT METLAB SERVICES LLP

Trade Name, if any RAJKOT METLAB SERVICES LLP

Additional trade names, if

any

### **Details of Designated Partners**

Name KULDIP KIRITBHAI SINDHAV

Designation/Status PARTNER

Name ANKUR SURESHBHAI TRADA

Gujarat

Designation/Status PARTNER

Resident of State Gujarat

### INCOME TAX PAN SERVICES UNIT

### Managed by Protean eGov Technologies Limited

(formerly NSDL e-Governance Infrastructure Limited) 4th Floor, Sapphire Chambers, Baner Road, Baner, Pune - 411045

poroteantech.in भारत सरकार आयकर विमाग GOVT. OF INDIA INCOME TAX DEPARTMENT स्थायी लेखा संख्या कार्ड Permanent Account Number Card AARFR2036E RAJKOT METLAB SERVICES LLP निगमन/गटन की तहीं Date of Incompanie 01/06/2014

Dear Sir / Madam.

Permanent Account Number (PAN)

AARFR2036E

Your request for changes / corrections in PAN data / reprint of PAN card has been processed and new PAN card is enclosed.

We wish to inform you that quoting of PAN on return of income and challans for payment of taxes is necessary to ensure accurate credit of taxes paid by you and faster processing of return of income. Please quote PAN in all communications with department as it helps to improve taxpayer services.

Income Tax Department maintains a website - www.incometaxindia.gov.in for providing information and services to citizens. This site contains detailed information on PAN also.

The PAN Card enclosed contains Enhanced QR Code which is readable by a specific Android Mobile App. Keyword to search this specific Mobile App on Google Play Store is "Enhanced OR Code Reader for PAN Card".

Income Tax Department

PKG ID: PLC / 00009 / N 20122023 03 / PST

GUJ/ 201/ 8981097002968301171/ 201223124514

**RAJKOT METLAB SERVICES LLP** 

RAJKOT METLAB SERVICES LLP PL 29-30, NEAR TULIP PARTY PLOT, GONDAL ROAD, VAVDI, RAJKOT, GUJARAT - 360004

TEL. NO.: 91 - 8141424644



"As per instruction from Income Tax Department, an authorized agencies' agent may visit you for your identity and address verification as per the documents submitted by you with the PAN application form. You are requested to ask authorization letter/ID card from the agent before verification. Your cooperation is solicited in this regard.

(This being a computer-generated letter, no signature is required)





### **CONFIRMATION**

### Name & Address of the Organization:

### RAJKOT METLAB SERVICES LLP

Rajkot Lab Gate, NH-27, Opp JCB Showroom, Nr. Tulip Party Plot, B/h Perfect Maruti Showroom, Vavdi, Rajkot, Gujarat, 360004, India.

1.	We	co	nfirm	that	the	provisi	ons	of	the	Mic	ro,	Small	and Medium
	En	ter	prises	Dev	elop	ment A	Act,	20	006	(MSI	MED	Act)	are applicable
	to	us	and	our	orga	nization	ı fa	lls	(as	per	the	Ackr	nowledgement
	en	clos	sed) u	nder	the o	definitio	nof:						

а.	[	V	] Micro Enterprise
b.	[		] Small Enterprise
c.	[		Medium Enterprise

MSME / Udyog Aadhaar Registration Number: <u>UDYAM-GJ-20-0162628</u>

2. In case the provisions of MSMED Act are not applicable on the organization:

[ ] None of the provisions of the Act is applicable tous.

Authorised Signatory

Name of the person:- Mr. Ankur Trada / Mr. Kuldip Sindhav

Designation: - Designated Partner

Seal of the organization:-

### Notes:

- 1. Please put a tick in the box [Y] against the appropriate clause mentioned above.
- 2. Enclose a copy of the MSME/UdyogAadhaar certificate in case clause no. 1 is applicable to you



### भारत सरकार Government of India सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय



Ministry of Micro, Small and Medium Enterprises

### **UDYAM REGISTRATION CERTIFICATE**

**UDYAM REGISTRATION NUMBER** 

UDYAM-GJ-20-0162628

NAME OF ENTERPRISE

M/S RAJKOT METLAB SERVICES LLP

TYPE OF ENTERPRISE \*

SNo.	Classification Year	Enterprise Type	Classification Date	
1	2023-24	Micro	26/01/2024	

MAJOR ACTIVITY

### **SERVICES**

SOCIAL CATEGORY OF ENTREPRENEUR

### **GENERAL**

NAME OF UNIT(S)

S.No.	Udyog Aadhaar Memorandum	Unit(s) Name
1	GJ20E0003831	RAJKOT METLAB SERVICES
2		M/S RAJKOT METLAB SERVICES LLP

OFFICAL ADDRESS OF ENTERPRISE

Flat/Door/Block No.	R.S No.33	Name of Premises/ Building	PLOT NO.29&30
Village/Town	Vavdi, Gondal Road	Block	Nr. Tulip Party Plot
Road/Street/Lane	Opp. JCB Showroom, Highway 27	City	Rajkot
State	GUJARAT	District	RAJKOT, Pin 360004
Mobile	9998665444	Email:	testing@rajkotlab.com

DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE

01/06/2014

DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS

01/06/2014

NATIONAL INDUSTRY CLASSIFICATION CODE(S)

SNo.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity		
1	74 - Other professional, scientific and technical activities	7490 - Other professional, scientific and technical activities n.e.c.	74909 - Other professional, scientific and technical activities n.e.c.	Services		

### DATE OF UDYAM REGISTRATION

### 26/01/2024

Disclaimer: This is computer generated statement, no signature required. Printed from https://udyamregistration.gov.in & Date of printing:- 26/01/2024

For any assistance, you may contact:

1. District Industries Centre: RAJKOT (GUJARAT)

2. MSME-DFO: AHMEDABAD (GUJARAT)

Visit: www.msme.gov.in; www.dcmsme.gov.in; www.champ







<sup>\*</sup> In case of graduation (upward/reverse) of status of an enterprise, the benefit of the Government Schemes will be availed as per the provisions of Notification No. S.O. 2119(E) dated 26.06.2020 issued by the M/o MSME.

	HDFC BANK			St. Sul					
CA/03101/ 404/ 975 / Bk: 1/1	REQUEST FOR NEW CHEQUE BOOK	Date :							
	HBW130524678354 - BLU 33350630342  0792 BOM/NDM N RJK/RKT  RAJKOT METLAB SERVICES LLP C/O RAJKOT METLAB SERVICES NATIONAL HIGHWAY 27 OPP TULIP PARTY PLOT NEAR JCB SHOWROOM RAJKOT - 360002 GUJARAT, INDIA	I need a cheque book with   25 Leaves  I/We would like the cheque book to be:  Collected from					100 Le	aves	
		I/We confirm that I/We have/will read "Co and agree to abide by such conditions a need to be careful when drawing cheques enable alterations in a manner which is n Please provide your contact numbers to	oplicable from and agree the ot readily det	n time to nat I/We ectable.	time. Will not	/We h draw	ereby chequ	acknow	rledge the
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	VAVDI-360004 GUJARAT	Cheque Leaves enclosed -: 25	Cheque !	Series Fr	om -: 0	00976	To 0	01000	
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#000976# 360240014# 000586# 29

"Rajkot Lab", Plot No. 29-30, NH-8, Gondal Highway, Near Tulip Party Plot, Survey No. 33, Vavdi, Rajkot, Gujarat 360004.





### **Entrance**



**Reception** 

"Rajkot Lab", Plot No. 29-30, NH-8, Gondal Highway, Near Tulip Party Plot, Survey No. 33, Vavdi, Rajkot, Gujarat 360004.





Spectro Cum Metallurgical Lab



"Rajkot Lab", Plot No. 29-30, NH-8, Gondal Highway, Near Tulip Party Plot, Survey No. 33, Vavdi, Rajkot, Gujarat 360004.





### **Physical Lab**



**Mechanical Lab** 

"Rajkot Lab", Plot No. 29-30, NH-8, Gondal Highway, Near Tulip Party Plot, Survey No. 33, Vavdi, Rajkot, Gujarat 360004.





### **Cement Lab**



"Rajkot Lab", Plot No. 29-30, NH-8, Gondal Highway, Near Tulip Party Plot, Survey No. 33, Vavdi, Rajkot, Gujarat 360004.





Soil Lab



**Sample Preparation Area** 

"Rajkot Lab", Plot No. 29-30, NH-8, Gondal Highway, Near Tulip Party Plot, Survey No. 33, Vavdi, Rajkot, Gujarat 360004.





#### **Concrete Mix Design Lab**













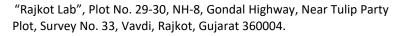












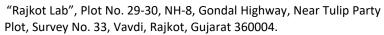






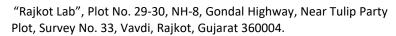














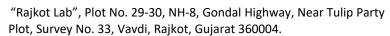
























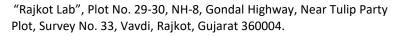






























Soil Lab



**Chemical Lab** 





**Chemical Lab** 



**Metallurgical Lab** 





**Geo Textile cum Force Lab** 



**Thermal Lab** 





**Thermal Lab** 



**Dimension Lab** 

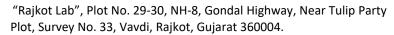




**Dimension Lab** 



**Weight Lab** 







**Dimension Lab** 



		List of	f Equipment		
SI. No.	Unique ID	Equipment Name	Make/Model/ Sr no/Year	Range(s)	Accuracy /LC
1	RMS-01	Universal Testing Machine	TWI/TUTE 40T/405/2014	0 - 400 kN	± 1 kN
2	RMS-02	Electric Extensometer	TWI/EE-2/019/2014	0 - 2 mm	1 μm
3	RMS-03	Digital Vernier Caliper	Insize/Series 112/1706171502/2017	0 – 200mm	0.01mm
4	RMS-04	Impact Testing Machine (ASTM)	TWI/TIT30 ASTM/406/2014	0 - 300 J	± 2 Joule
5	RMS-05	Indicator & Sensor for Impact Bath	Adiath/RTD PT 100/63056/2014	-199.9 to +199.9 °C	± 0.2%
6	RMS-06	Lateral Expansion Gauge	Baker/AFD713/	0-10 mm	10 μm
7	RMS-07	Profile Projector	Radical/RPP-150/I-180937/	50X	
8	RMS-08	Rockwell cum Brinell Hardness Tester	Carlos/RAB 250/	0-100 HRC	1 HRC
9	RMS-09	Rockwell Hardness Tester	Saroj/RAS-13/026/2006	0-100 HRBW	1 HRBW
10	RMS-10	Microscope	QS/NIM1000X/	10X, 20X, 40X, 100X	
11	RMS-11	Macroscope	Radical/Stereo4/	7X to 45X	-
12	RMS-12	Weighing Balance	Scale-Tec/SAE- 224CL/N10323802724001/	0 to 220 g	± 0.1 mg
13	RMS-13	Controller & Sensor for Hot Plate	Multispan/TC-29/21406090/	Ambient to 150 °C	±1°C
14	RMS-14	Controller & Sensor for Water Bath (HC)	Udian/RTD/	-10 to 100 °C	±1°C
15	RMS-15	Controller & Sensor for Water Bath (H)	Udian/	-10 to 100 °C	±1°C
16	RMS-16	Controller & Sensor for Muffle Furnace	Solar/6 x 6 x 12/	Ambient to 1200 °C	±1°C
17	RMS-17	Controller & Sensor for Muffle Furnace (IMC)	Alpha/	Ambient to 1200 °C	±1°C
18	RMS-18	Optical Spectrometer	Bruker/Tasman Q4/L0024/	Fe, Ni Base	± 1 %
19	RMS-19	Measuring Jar	Fischer/	0-1000 ml	± 10 ml
20	RMS-20	Dial Depth Gauge	Baker/BDC838/	0-1 mm	1 μm
21	RMS-21	DC Volt Meter	ZENIX/AVM-31/	1-999 V	1V
22	RMS-22	Ammeter	Selec/XT543/	0-30 A	± 1 %
23	RMS-23	Humidity & Temperature Meter	Eurolab/288CTH/	1-95 % / 15- 50 °C	± 0.5 % / ± 1 %
24	RMS-24	Hydrometer	Leimco/55641/055641/	1.000-1.200	0.002
25	RMS-25	Digital pH Mater	Hanna/	0-14 pH	±0.1
26	RMS-26	SST 01, Cabinet Indicator & Sensor	Solar/TC-1044N/200	20 to 99 °C	± 1 %
27	RMS-27	Pressure Gauge for SST	Pointer/KI-10/200	0 to 30 PSI	0.025
28	RMS-28	Resistivity Meter	Weco/	0-10-1000 Ω	±1%
29	RMS-29	Micro Meter	Aerospace/	0-25 mm	10 μm
30	RMS-30	Weighing Balance	Sensita/TSSR/	0-1-2 Kg	0.1/0.2 g
31	RMS-31	Timer	Solar/UTR-2044/	6 - 5994 Min	6 Min



	List of Equipment						
SI. No.	Unique ID	Equipment Name	Make/Model/ Sr no/Year	Range(s)	Accuracy /LC		
32	RMS-32	Pneumatic Pressure Test	Carlos/	0-21 Kg/cm2	0.25 Kg/cm2		
33	RMS-33	Brinell Microscope	Saroj/	1-10 mm	-		
34	RMS-34	Micro Polishing Machine	Carlos/	1440 rpm	8 Inch Dia		
35	RMS-35	Spectro Polishing Machine	Carlos/	2880 rpm	14 Inch Dia		
36	RMS-36	Pneumatic Pressure Gauge	Keller/	0-21	4 -		
37	RMS-37	ICE Maker	Carlos/	3 Pc / Min	-		
38	RMS-38	Carbon Apparatus	Carlos/	0 - 3 %			
39	RMS-39	Jominy Apparatus Fixture	Carlos/				
40	RMS-40	HIC Test Apparatus	Carlos/	-11	-		
41	RMS-41	Hot Mounting Machine	Trasind/				
42	RMS-42	Abrasive Cutting Machine	Trasind/	200 mm Dia			
43	RMS-43	Brinell Hardness	Fasne/AKB-3000/370/2019	HBW 5/750, HBW 10/3000	± 1 %		
44	RMS-44	Coating Thickness Meter	MGW/DGFT-3914/N805999/2018	0-1200 um	± 1%		
45	RMS-45	Gloss Meter 60 Degree	Mextech/GM-06/N863563/2018	0.1 to 200 Gloss Units	± 1%		
46	RMS-46	Resistivity Meter	Weco/	0-10-1000 Ω	± 1 %		
47	RMS-47	Vickers Hardness Tester	BIE/BV-250(S)/157/2019	HBW 2.5/187.5, HBW 5/250, HV2, HV10	± 1%		
48	RMS-48	Flakiness Gauge	EIE/2019	4	-		
49	RMS-49	Aggregate Crushing Value App	EIE/2019	The state of the s			
50	RMS-50	Length Gauge	EIE/2019	- "Alle	- 1		
51	RMS-51	Aggregate Impact Value	EIE/1906344/2019	100	9 -		
52	RMS-52	Digital Constant Water Bath	Carlos/80HC/2019	5 to 80 °C	0.1 °C		
53	RMS-53	Vicat Apparatus	Amil/2019	-	100		
54	RMS-54	Humidity Chamber	PPI/Humitherm- C/181927950/2019	0 to 60 °C, 0 to 100 % RH	0.1 °C, 0.1 %RH		
55	RMS-55	Mortar Cube Vibrator	EIE/1906345/2019	-	-		
56	RMS-56	Digital Constant Water Bath	Carlos/80HC/2019	5 - 80 °C	0.1°C		
57	RMS-57	Measuring Tape	Yamayo/Y-19 mm/2019	0-5 Mtr	1 mm		
58	RMS-58	S S Scale	Kristeel/401C10/2019	0 to 300 mm	0.5 / 1 mm		
59	RMS-59	Slump Test Aparatus	EIE/2019	-	-		
60	RMS-60	Compression Testing Machine	EIE/NM-2000/1905539/2019	0-2000 KN	0.1 KN		
61	RMS-61	Flexural Testing Machine	EIE/NM-2000/1905539/2019	0-100 KN	0.01 KN		
62	RMS-62	Sieves	EIE/450 mm/196407/2019	10 mm	-		
63	RMS-63	Sieves	EIE/200 mm/196402/2019	300 μm	-		



	List of Equipment						
SI. No.	Unique ID	Equipment Name	Make/Model/ Sr no/Year	Range(s)	Accuracy /LC		
64	RMS-64	Sieves	EIE/200 mm/19815/2019	150 μm	-		
65	RMS-65	Sieves	EIE/200 mm/196404/2019	1 mm	-		
66	RMS-66	Sieves	EIE/200 mm/19809/2019	2 mm	-		
67	RMS-67	Sieves	EIE/450 mm/196406/2019	20 mm	-		
68	RMS-68	Sieves	EIE/200 mm/19813/2019	75 μm	į		
69	RMS-69	Sieves	EIE/200 mm/19814/2019	90 μm			
70	RMS-70	Sieves	EIE/200 mm/19816/2019	212 μm			
71	RMS-71	Sieves	EIE/200 mm/19818/2019	425 μm			
72	RMS-72	Sieves	EIE/200 mm/19819/2019	600 μm			
73	RMS-73	Sieves	EIE/200 mm/19808/2019	1.18 mm	-		
74	RMS-74	Sieves	EIE/200 mm/19811/2019	1.70 mm			
75	RMS-75	Sieves	EIE/200 mm/19810/2019	2.36 mm			
76	RMS-76	Sieves	EIE/450 mm/19636/2019	5.6 mm	-		
77	RMS-77	Sieves	EIE/450 mm/19637/2019	6.3 mm	-		
78	RMS-78	Sieves	EIE/450 mm/19638/2019	9.5 mm	-		
79	RMS-79	Sieves	EIE/450 mm/19640/2019	11.2 mm	-		
80	RMS-80	Sieves	EIE/450 mm/19641/2019	12.5 mm	-		
81	RMS-81	Sieves	EIE/200 mm/19807/2019	4.75 mm	-		
82	RMS-82	Lid & Pan	EIE/200 mm/19820/2019	-			
83	RMS-83	Sieves	EIE/300 mm/19635/2019	75 μ <mark>m</mark>			
84	RMS-84	Proctor Mould Light	EIE/100mm/2019	ý -	-		
85	RMS-85	Compaction Rammer 2.69 Kg	EIE/2.69 Kg/2019	100	-		
86	RMS-86	Compaction Rammer 4.89 Kg	EIE/4.89 Kg/2019	The state of the s	- 17		
87	RMS-87	Proctor Mould Heavy	EIE/150 mm/2019	30.7	- /		
88	RMS-88	Hot Air Oven	Omron/E5CWL/190501/2019	0 to 250 °C	0.1 °C		
89	RMS-89	Cone Penetrometer	EIE/2019	-	Age of the		
90	RMS-90	Load Cell, 50 KN	EIE/Rudra/RSL 301A/1904112105/2019	0-50 KN	0.001KN		
91	RMS-91	Load Cell, 200 Kg	EIE/Rudra/RSL 301A/1801115110/2019	0 to 200 Kgf	0.1 Kgf		
92	RMS-92	Bituminous Penetrometer Apparatus	EIE/2018	0 to 40 mm	0.1 mm		
93	RMS-93	Sieves	EIE/450 mm/2019	13.2 mm	-		
94	RMS-94	Sieves	EIE/450 mm/2019	16.00 mm	-		
95	RMS-95	Sieves	EIE/450 mm/2019	19.00 mm	-		
96	RMS-96	Sieves	EIE/450 mm/2019	22.4 mm	-		
97	RMS-97	Sieves	EIE/450 mm/2019	25.00 mm	-		
98	RMS-98	Sieves	EIE/450 mm/2019	26.5 mm	-		



	List of Equipment						
SI. No.	Unique ID	Equipment Name	Make/Model/ Sr no/Year	Range(s)	Accuracy /LC		
99	RMS-99	Sieves	EIE/450 mm/2019	40.00 mm	-		
100	RMS-100	Sieves	EIE/450 mm/2019	45.00 mm	-		
101	RMS-101	Sieves	EIE/450 mm/2019	50.00 mm	-		
102	RMS-102	Sieves	EIE/450 mm/2019	53.00 mm	-		
103	RMS-103	Sieves	EIE/450 mm/2019	63.00 mm			
104	RMS-104	Sieves	EIE/450 mm/2019	75.00 mm			
105	RMS-105	Sieves	EIE/450 mm/2019	80.00 mm			
106	RMS-106	Sieves	EIE/450 mm/2019	90.00 mm			
107	RMS-107	Sieves	EIE/450 mm/2019	125.00 mm	-		
108	RMS-108	Sieves	EIE/450 mm/2019	31.5 mm	-		
109	RMS-109	Sieves	EIE/450 mm/2019	37.5 mm	- 1		
110	RMS-110	Specific gravity bottle	Jenson/50 ml/2019	50 ml	-		
111	RMS-111	Free swell cylinder	EIE/100 ml/2019	100 ml	-		
112	RMS-112	Weighing Balance	Scale-Tec/CWS 15/T-19- 1974/2019	10g -15kg	0.1/0.2g		
113	RMS-113	Weighing Balance	Scale-Tec/CWS 6KE/201911302835/2019	5g-6kg	0.1/0.1g		
114	RMS-114	Weighing Balance	Scale-Tec/CWS 30.5/T-19- 1975/2019	25g - 30 kg	0.1 / 0.5 gm		
115	RMS-115	Weighing B <mark>alance</mark>	Scale-Tec/CWS 1002/T-19- 1942/2019	0.5g - 1 kg	0.01/0.01g		
116	RMS-116	Pycnometer Bottle	EIE/100 ml/2019	1000 ml			
117	RMS-117	Viscosity Bath	140660/EIE-410/410/2019	135°C	0.1°C		
118	RMS-118	Ring & Ball Apparatus (softning Point)	MKI/2019	100°C	0.1°C		
119	RMS-119	Stop Watch	Racer/2018	0-24 Hrs	1/100S		
120	RMS-120	Temp. Indicator with Sensor of Ductility Apparatus	Aceteq/ST-9283/2019	-50 to 300 °C	0.1°C		
121	RMS-121	Universal Testing Maachine	Rudra/2002196/2020	0.001-50 KN	0.001 kn		
122	RMS-122	Measuring Scale (Ductility apparatus)	Omega/2019	1000 mm	1 mm		
123	RMS-123	Weight box - 200 gm	Labline/Grade A/2571/2014	0.1 - 200 gm	-		
124	RMS-124	Thin Film Oven	EIE/2019	250°C	0.1°C		
125	RMS-125	Digital Thermometer with indicator	2019	300°C	0.1°C		
126	RMS-126	Tachometer	DT/DT-2234C/L-182777/2018	2.5-99999 RPM	+/-0.5%		
127	RMS-127	Temp. Indicator with Sensor for Impact Temp Bath	Carlos/TC805M/19100839/2019	+200 to -200 °C	0.1°C		
128	RMS-128	Muffle Furnace	Carlos/9 x 9 x 18/2019	1200 °C	± 5°C		
129	RMS-129	Weighing Balance	Swisser/SWIT501/2190961/2019	50g to 50 kg	1 g		
130	RMS-130	LVDT (CBR Digital)	EIE/MYNE/K1101//2019	0-25MM	0.01 mm/		



		List o	f Equipment		
SI.	Unique ID	Equipment Name	Make/Model/ Sr no/Year	Range(s)	Accuracy /LC
				48	0.5%
131	RMS-131	LVDT (Digital Direct Shear )	EIE/Potel//2019	0-25 mm	0.01 mm
132	RMS-132	Dial Gauge (Marshall Apparatus)	Asahi/	0-25 mm	0.01 mm
133	RMS-133	Dial Gauge (Length Gauge)	AeroSpace/2019	0-12.5	0.001 mm
134	RMS-134	Point Load Tester, Pressure Gauge	Setra /PT/AT198110BC-240-18- 0001/2019	0 to 400 Bar	1 Bar
135	RMS-135	Humidity & Temperature Meter	MexTech/TM2/2019	1-95 % / 15- 50 °C	± 0.5 % / ± 1 %
136	RMS-136	Humidity & Temperature Meter	HTC/HTC1/2019	1-95 % / 15- 50 °C	± 0.5 % / ± 1 %
137	RMS-137	Viscosity Tube, No: 6	/No 6/1021/2019		-
138	RMS-138	Viscosity Tube, No: 13	/No 13/1071/2019	0	
139	RMS-139	Dial Gauge (Consolidation)	Asahi/****/****/****	0-25 mm	0.01 mm
140	RMS-140	Vacuum Pump, Vacuum Gauge	Rocker/	0-760 mmHg	25 mmHg
141	RMS-141	Sieves	EIE/300 mm/2019	4 mm	
142	RMS-142	Sieves	EIE/300 mm/2019	8 mm	-
143	RMS-143	Sieves	EIE/300 mm/2019	10 mm	-
144	RMS-144	Sieves	EIE/300 mm/2019	18 mm	
145	RMS-145	Sieves	EIE/300 mm/2019	45 μm	
146	RMS-146	Sieves	EIE/300 mm/2019	500 μm	
147	RMS-147	Sieves	EIE/300 mm/2019	4.75 mm	
148	RMS-148	Standard Penetration Dial	EIE/1-400/2019	0-40 mm	1/10
149	RMS-149	Split Spoon Sampler & falling weight	EIE/2019		
150	RMS-150	Hanging Weighing Balance	ESCALA/2019	0-10 Kg, 10- 50 Kg	5, 10 g
151	RMS-151	Universal Testing Machine-100T	FINE/TUE-C 1000/2011-65/2011	0-1000 KN	1%, 0.04KN
152	RMS-152	Digital Rockwell Hardness Tester	FIE/RASNET-3//	HR 30 N, HRBW, HRC , HRA	1%, 0.1
153	RMS-153	Digital Dial Gauge (LC)	Mitutoyo/ID-C112/22269/2018	0.001 - 12.7 mm	0.1% / 0.001 mm
154	RMS-154	Dial Gauge	Baker/BDC838/	0.002-12 mm	2 μm
155	RMS-155	Dial Gauge	Baker/K08/EJB382/44105	0.01-25	0.01 mm
156	RMS-156	Dial Gauge	Baker/K08/EJB583/44105	0.01-25	0.01 mm
157	RMS-157	Dial Gauge	Baker/K08/EJB490/44105	0.01-25	0.01 mm
158	RMS-158	Dial Gauge	Baker/K08/EJB306/44105	0.01-25	0.01 mm
159	RMS-159	Pressure Transducer with Digital Display Set-1	Setra /PT/TT005943P-077-11- 0044/44105	0 to 700 Bar	1 Bar
160	RMS-160	Rebound Hammer	Controls/58-	10-100	1



		List o	f Equipment		
SI.	Unique ID	Equipment Name	Make/Model/ Sr no/Year	Range(s)	Accuracy /LC
			C0181/C/20000025/2020	.38	
161	RMS-161	Dial Gauge	Baker/J72/DKD324/2020	0.01-50	0.01 mm
162	RMS-162	Dial Gauge	Baker/J72/DKD879/2020	0.01-50	0.01 mm
163	RMS-163	Dial Gauge	Baker/J72/DKD320/2020	0.01-50	0.01 mm
164	RMS-164	Dial Gauge	Baker/J72/DKD335/2020	0.01-50	0.01 mm
165	RMS-165	Dial Gauge	Baker/K14/DKD691/2020	0.002-12 mm	0.002 mm
166	RMS-166	LVDT 100 mm	Many/KTR-100/2019080015/2019	0.01-100 mm	0.01 mm
167	RMS-167	LVDT 100 mm	Many/KTR-100/2019080011/2019	0.01-100 mm	0.01 mm
168	RMS-168	LVDT 100 mm	Many/KTR-100/2019080005/2019	0.01-100 mm	0.01 mm
169	RMS-169	LVDT 100 mm	Many/KTR-100/GZ2004845/2019	0.01-100 mm	0.01 mm
170	RMS-170	Data Logger	Vishwakarma Ent/2021	6 Channel	-
171	RMS-171	Core Cutting Machine 250 mm	DCA/AZZ250/302012014861/2020	0-250 mm	-
172	RMS-172	Core Cutting Machine 150 mm	DCK/KZZ03- 130/302010003284/2020	0-150 mm	-
173	RMS-173	Digital Vernier Caliper	Yuri/IP54/2021	0 – 200mm	0.01mm
174	RMS-174	Ultrasonic Pulse Velocity	Controls/58- E4800/20000970/2020		
175	RMS-175	Half Cell <mark>Electrode</mark>	Shakti/Cu-cuso4/73/2021	0-5 vdc	
176	RMS-176	Multimeter (Half Cell)	Mastech/MAS830L/H62A- K20020/2020	0-5 vdc	
177	RMS-177	Bar Locator	Bosch/GMS 120/028021743/44044	200 To 100	0.0
178	RMS-178	Bar Locator	Bosch/D-Tect 120/121165395/44197		-/-
179	RMS-179	Pressure Gauge (Master)	Pointer/SP-150-WP-S64-DB- 38B/PIPL21042788/2021	0-700 BAR	5 BAR
180	RMS-180	Micrometer Glass Scale	ERMA/1 mm 100 Division/2014	10 to 1000 μm	-/ 10μm
181	RMS-181	Hydraulic Jack- 200T	Mascotech/RCCS 200-60/	200 Ton	-
182	RMS-182	Hydraulic Jack- 55T	BVA/H5506/	55 Ton	-
183	RMS-183	Hydraulic Jack- 30T	Enerpac/RCH306/	30 Ton	-
184	RMS-184	Hydraulic Jack- 25T	Enerpac/RC256/	25 Ton	-
185	RMS-185	Hydraulic Jack- 10T	Local/	10 Ton	-
186	RMS-186	Pressure Transducer with Digital Display Set-2	Setra /PT/TT005943P-077-11- 0044/44105	0 to 700 Bar	-
187	RMS-187	In-Situ Metallographic Grinder		-	-
188	RMS-188	Tape Scratch Hardness Test Kit		-	-
189	RMS-189	Pencile Hardness Test Kit		-	-



	List of Equipment						
SI. No.	Unique ID	Equipment Name	Make/Model/ Sr no/Year	Range(s)	Accuracy /LC		
190	RMS-190	Half Cell Electrode	Shakti/Cu-cuso4/75/2021	0-5 vdc	-		
191	RMS-191	Half Cell Electrode	Shakti/Cu-cuso4/76/2021	0-5 vdc	-		
192	RMS-192	Casagrande Liquid Limit Apparatus	///	0	0		
193	RMS-193	Blain Air	///	0	0		
194	RMS-194	Welding Gauge	InSize/4835-1/2611200303/2020	25 mm	0.5 mm		
195	RMS-195	ERT Test Kit	Metravi/ERT- 1502/210514218/2021	10, 100, 1000 Ohm	±3% / 0.01,0.1,1 ohm		
196	RMS-196	Sieves	Azad/200 mm/2021	44 μm			
197	RMS-197	Sieves	Azad/200 mm/2021	850 μm	- 1		
198	RMS-198	Sieves	Azad/200 mm/2021	75 μm			
199	RMS-199	Durometer Shore A	MGW/Shore A/008290/2022	0-100	1		
200	RMS-200	Durometer Shore D	MGW/Shore D/009523/2022	0-100	1		
201	RMS-201	Dial Thickness Gauge	MGW/21016752/2022	0-10 mm	± 0.01 mm		
202	RMS-202	Pressure Gauge	Royal/PIPL-21125603-500/2022 700 B		± 5 Bar		
203	RMS-203	Pressure Gauge	Royal/PIPL-22015422700/2022	700 Bar	± 5 Bar		
204	RMS-204	Pressure Gauge	Royal/PIPL-22015421525/2022	700 Bar	± 5 Bar		
205	RMS-205	Pressure Gauge	Royal/PIPL-22015420350/2022	700 Bar	± 5 Bar		
206	RMS-206	Digital Pressure Gauge	ASCORP/PG802C-3-700Bar- B/2022/02/15/08/2022	0-700 Bar	± 1 Bar		
207	RMS-207	Infrared Thermometer	BEETECH/MT-4E/2022	50°C-550°C	± 2 C/± 0.1 °C		
208	RMS-208	Digital Clamp Meter	Meco/27-AUTO/180D2822/2019	9-2-	±0.05 %		
209	RMS-209	Resistance Box	//2021	1 to 10000 Ω	0.01 mm		
210	RMS-210	Pipette	Hari Om/5 ml/2022	- St.	-/-		
211	RMS-211	Pipette	Hari Om/10 ml/2022	200	A. Van		
212	RMS-212	Pipette	Hari Om/25 ml/2022	-	The same		
213	RMS-213	Burette	Local/10 ml/2022	0-10 ml	0.05 ml		
214	RMS-214	Burette	Pragati/25 ml/2022	0-25 ml	0.1 ml		
215	RMS-215	Burette	Hari Om/50 ml/2022	0-50 ml	0.1 ml		
216	RMS-216	Measuring Cylinder	100 ml/2022	10-100 ml	1 ml		
217	RMS-217	Measuring Cylinder	Pragati/250 ml/2022	30-250 ml	2 ml		
218	RMS-218	Measuring Cylinder	Pragati/500 ml/2022	50-500 ml	5 ml		
219	RMS-219	Standard Measuring Flask	500 ml/2022	500 ml	-		
220	RMS-220	Bluetooth Digital vernier caliper	Insize/1127- 150/2512211232/2022	0-150 mm	0.01 mm		
221	RMS-221	Radius Gauge (1 - 7 mm)	Kristeel/1252A/2022	R1-7mm	-		
222	RMS-222	Radius Gauge ( 7.5 - 15 mm )	Whitworth/2022	R7.5-15mm	-		
223	RMS-223	Radius Gauge ( 15.5 - 25 mm )	Whitworth/2022	R15.5-	-		



	List of Equipment						
SI. No.	Unique ID	Equipment Name	Make/Model/ Sr no/Year	Range(s)	Accuracy /LC		
				25mm			
224	RMS-224	Filler Gauge	Atul/2022	0.03-1mm	-		
225	RMS-225	Thread Gauge	Technika/2022	344	-		
226	RMS-226	CBR Puncher Test Setup for Geotextile	PCS/2022	-	-		
227	RMS-227	Cone Penetration ASTM for Geotextile	PCS/2022	-	SET IT		
228	RMS-228	SST 02, Air Saturator Temp. Controller With Sensor	Solar/TC-2101N/200	20 to 99 °C	±1%		
229	RMS-229	SST 02, Cabinet Temp. Controller With Sensor	Solar/TC-2101N/200	20 to 99 °C	± 1 %		
230	RMS-230	Cone Penetration IS for Geotextile for Geotextile	PCS/2022	- 1			
231	RMS-231	Hot Tensile Temp. Controller with Sensor 1	Solar/TC-21 <mark>01N/2022</mark>	20 to 850 °C	± 1 %		
232	RMS-232	Hot Tensile Temp. Controller with Sensor 2	Solar/TC-2101N/2022	20 to 850 °C	± 1 %		
233	RMS-233	Hot Tensile Temp. Controller with Sensor 3	Solar/TC-2101N/2022	20 to 850 °C	± 1 %		
234	RMS-234	Falling Weight Impact Tester Heavy for Paint as per IS	PCS/2022		-		
235	RMS-235	Impact Tester for Paint as per ASTM	PCS/2022	-	Ų.		
236	RMS-236	Scratch Hardness Tester for Paint	PCS/2022	-			
237	RMS-237	Density Cup for Paint	PCS/2022	-	-		
238	RMS-238	Finness	PCS/2022	-	-		
239	RMS-239	Ford Cup Viscometer	PCS/2022	Strange Commence			
240	RMS-240	Vane Shear	PCS/2022	5 132.00	-		
241	RMS-241	Triaxial Shear Universal Frame	PE/23224/2022	1			
242	RMS-242	Benkelman Beam Test Setup	PE/2022	-	Co. Lager		
243	RMS-243	Bending Strength or MOR (Modulus of Rupture)	Samay/800 x 1500/2022	1000 Kg	0.1		
244	RMS-244	SST 01, Air Saturator Temp. Controller With Sensor	Solar/UTC-4101N/200	20 to 99 °C	± 1 %		
245	RMS-245	Brucker PMI	Bruker/S1 Titan 500/500N8263/2018	-	-		
246	RMS-246	5 Kg Weight	Mahashakti/2022		-		
247	RMS-247	10 Kg Weight	Mahashakti/2022	-	-		
248	RMS-248	20 Kg Weight	Mahashakti/2022	-	-		
249	RMS-249	Proving Ring	Ring / Dial : KANN/50KN/560/2022	50KN	0.1 Div (1 Div = 0.002 mm)		





#### NABL

#### **CERTIFICATE OF ACCREDITATION**

#### RAJKOT METLAB SERVICES LLP

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

#### "General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

NH 27, VAVDI, RAJKOT, GUJARAT, INDIA

in the field of

#### **TESTING**

**Certificate Number: TC-5212** 

**Issue Date:** 

09/11/2024

Valid Until:

08/11/2028

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of thislaboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: RAJKOT METLAB SERVICES LLP

Signed for and on behalf of NABL



Anita Rani Director

N. Venkateswaran Chief Executive Officer





#### SCOPE OF ACCREDITATION

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
		Permanent Testing		
1	CHEMICAL- BUILDING MATERIAL	Admixture	Ash content	IS 9103
2	CHEMICAL- BUILDING MATERIAL	Admixture	Chloride ion content	IS 6925
3	CHEMICAL- BUILDING MATERIAL	Admixture	Dry material content	IS 9103
4	CHEMICAL- BUILDING MATERIAL	Admixture	рН	IS 9103
5	CHEMICAL- BUILDING MATERIAL	Admixture	Relative density	IS 9103
6	CHEMICAL- BUILDING MATERIAL	Aggregate	Deleterious Material	IS 2386 Part 1 & 2
7	CHEMICAL- BUILDING MATERIAL	Aggregate	Organic Impurities	IS 2386 Part 2
8	CHEMICAL- BUILDING MATERIAL	Aggregate	Soluble Chloride as Cl	BS 1377-1
9	CHEMICAL- BUILDING MATERIAL	Aggregate	Sulphate as SO3 (Acid Extract)	BS 1377 Part 118
10	CHEMICAL- BUILDING MATERIAL	Aggregate, Rock, Stone	Alkali Aggregate Reactivity	IS 2386 Part 7
11	CHEMICAL- BUILDING MATERIAL	Cementitious Materials	Alkalies as (K2O)	IS 4032
12	CHEMICAL- BUILDING MATERIAL	Cementitious Materials	Alkalies as (Na2O)	IS 4032
13	CHEMICAL- BUILDING MATERIAL	Cementitious Materials	Alumina Oxide (as Al2O3)	IS 4032
14	CHEMICAL- BUILDING MATERIAL	Cementitious Materials	Calcium Oxide as (CaO)	IS 4032
15	CHEMICAL- BUILDING MATERIAL	Cementitious Materials	Chlorides (As Cl)	IS 4032
16	CHEMICAL- BUILDING MATERIAL	Cementitious Materials	Insoluble residue	IS 4032





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
17	CHEMICAL- BUILDING MATERIAL	Cementitious Materials	Loss on ignition, percent by mass	IS 4032
18	CHEMICAL- BUILDING MATERIAL	Cementitious Materials	Magnesium oxide (MgO)	IS 4032
19	CHEMICAL- BUILDING MATERIAL	Cementitious Materials	Silicon Dioxide (As SiO2)	IS 4032
20	CHEMICAL- BUILDING MATERIAL	Cementitious Materials	Sulphur as SO3	IS 4032
21	CHEMICAL- BUILDING MATERIAL	Cementitious Materials	Iron Oxide (as Fe2O3)	IS 4032
22	CHEMICAL- BUILDING MATERIAL	Pozzalanic materials	Alumina Oxide (as Al2O3)	IS 1727
23	CHEMICAL- BUILDING MATERIAL	Pozzalanic materials	Calcium Oxide as (CaO)	IS 1727
24	CHEMICAL- BUILDING MATERIAL	Pozzalanic materials	Chlorides (As Cl)	IS 4032
25	CHEMICAL- BUILDING MATERIAL	Pozzalanic materials	Iron Oxide (as Fe2O3)	IS 1727
26	CHEMICAL- BUILDING MATERIAL	Pozzalanic materials	Loss on ignition , percent by mass	IS 1727
27	CHEMICAL- BUILDING MATERIAL	Pozzalanic materials	Magnesium oxide (MgO)	IS 1727
28	CHEMICAL- BUILDING MATERIAL	Pozzalanic materials	Sulphur Trioxide (as SO3)	IS 1727
29	CHEMICAL- CORROSION TESTS	copper/nickel/chromium or nickel/chromium coatings on steel, zinc alloys, aluminum alloys	Copper-Accelerated Acetic Acid-Salt Spray (Fog) Testing (CASS Test)	ASTM B368
30	CHEMICAL- CORROSION TESTS	Decorative Chromium Plating on steel or Zinc diecast base	Acetic Acid -Salt Spray (Fog) Testing (ASS)	ASTM G85 (Annex-1)
31	CHEMICAL- CORROSION TESTS	Electroplated and Anodized aluminium coatings.	Neutral Salt Spray (NSS)	IS 9844
32	CHEMICAL- CORROSION TESTS	Electroplated and anodized aluminum coating	Copper accelerated acetic acid salt spray (CASS) test	IS 5528





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
33	CHEMICAL- CORROSION TESTS	Electroplated and anodized Aluminum coatings	Acetic Acid Salt Spray (ASS)	IS 6910
34	CHEMICAL- CORROSION TESTS	Metal and their alloys, Metallic Coatings, Conversion Coatings,Anodic Oxide coatings, Organic coatings on metallic materials	Neutral Salt Spray (NSS)	ASTM B 117
35	CHEMICAL- CORROSION TESTS	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)	ISO 9227
36	CHEMICAL- CORROSION TESTS	Metallic Materials	Resistance to Sulfide Stress Cracking and Stress Corrosion cracking in H2S environment	NACE TM 0177 (Method A)
37	CHEMICAL- CORROSION TESTS	Metallic Materials	Resistance to Sulfide Stress Cracking and Stress Corrosion cracking in H2S environment	NACE TM 0177 (Method B)
38	CHEMICAL- CORROSION TESTS	Painted Products / Panels / Raw Materials	Neutral Salt Spray Test	IS 101 Part 6 Sec 1
39	CHEMICAL- CORROSION TESTS	Pipes and Pressure Vessel Steel Products - Pipes, Plates, Fittings and Flanges	Hydrogen-Induced Cracking Test (HIC)	ANSI NACE TM0284
40	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Bismuth (Bi)	ASTM E1251
41	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Boron (B)	ASTM E1251
42	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium (Cr)	ASTM E1251
43	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Cobalt (Co)	ASTM E1251
44	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper (Cu)	ASTM E1251
45	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Gallium (Ga)	ASTM E1251





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
46	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron (Fe)	ASTM E1251
47	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead (Pb)	ASTM E1251
48	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium (Mg)	ASTM E1251
49	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese (Mn)	ASTM E1251
50	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel (Ni)	ASTM E1251
51	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon (Si)	ASTM E1251
52	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Ti, Cr, Mn, Fe, Cu, Zn	ASTM E1476
53	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin (Sn)	ASTM E1251
54	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium (Ti)	ASTM E1251
55	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Vanadium (V)	ASTM E1251
56	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc (Zn)	ASTM E1251
57	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zirconium (Zr)	ASTM E1251
58	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Aluminum (Al)	IS 15338
59	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Carbon (C)	ASTM E1999
60	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Carbon (C)	IS 15338
61	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Chromium (Cr)	ASTM E1999





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
62	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Chromium (Cr)	IS 15338
63	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Copper (Cu)	ASTM E1999
64	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Copper (Cu)	IS 15338
65	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Manganese (Mn)	ASTM E1999
66	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Manganese (Mn)	IS 15338
67	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Molybdenum (Mo)	ASTM E1999
68	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Molybdenum (Mo)	IS 15338
69	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Nickel (Ni)	ASTM E1999
70	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Nickel (Ni)	IS 15338
71	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Phosphorus (P)	ASTM E1999
72	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Phosphorus (P)	IS 15338
73	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Silicon (Si)	ASTM E1999
74	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Silicon (Si)	IS 15338
75	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Sulfur (S)	IS 15338
76	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Sulfur (S)	ASTM E1999
77	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Tin (Sn)	ASTM E1999





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**Accreditation Standard** ISO/IEC 17025:2017

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
78	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Titanium (Ti)	ASTM E1999
79	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Vanadium (V)	ASTM E1999
80	CHEMICAL- METALS & ALLOYS	Cast Iron & Pig Iron	Vanadium (V)	IS 15338
81	CHEMICAL- METALS & ALLOYS	Cobalt & its alloys	Co, Cr, Ni, Mn, W, Fe	ASTM E1476
82	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Aluminum (Al)	BS EN 15079
83	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Antimony (Sb)	BS EN 15079
84	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Arsenic (As)	BS EN 15079
85	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Bismuth (Bi)	BS EN 15079
86	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Boron (B)	BS EN 15079
87	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Cadmium (Cd)	BS EN 15079
88	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Cobalt (Co)	BS EN 15079
89	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Iron (Fe)	BS EN 15079
90	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Lead (Pb)	BS EN 15079
91	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Manganese (Mn)	BS EN 15079
92	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Nickel (Ni)	BS EN 15079
93	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Phosphorus (P)	BS EN 15079





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94	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Silicon (Si)	BS EN 15079
95	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Silver (Ag)	BS EN 15079
96	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Sulfur (S)	BS EN 15079
97	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Tellurium (Te)	BS EN 15079
98	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Tin (Sn)	BS EN 15079
99	CHEMICAL- METALS & ALLOYS	Copper & Its Alloys	Zinc (Zn)	BS EN 15079
100	CHEMICAL- METALS & ALLOYS	Iron & its allos	Mn, Cr, Ni, Mo, Cu, Ti, Nb, Pb, Sn, Sb, V, Fe, W, Co	ASTM E1476
101	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Aluminum (Al)	JIS G1253
102	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Boron (B)	JIS G1253
103	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Carbon (C)	JIS G1253
104	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Chromium (Cr)	JIS G1253
105	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Cobalt (Co)	JIS G1253
106	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Copper (Cu)	JIS G1253
107	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Magnesium (Mg)	JIS G1253
108	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Manganese (Mn)	JIS G1253
109	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Molybdenum (Mo)	JIS G1253





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110	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Nickel (Ni)	JIS G1253
111	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Phosphorus (P)	JIS G1253
112	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Silicon (Si)	JIS G1253
113	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Sulfur (S)	JIS G1253
114	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Tin (Sn)	JIS G1253
115	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Alloy steel, Stainless Steel, Tool Steel etc.)	Vanadium (V)	JIS G1253
116	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Low Alloy steel, High Alloy steel, Stainless Steel, etc.)	Antimony (Sb)	JIS G1253
117	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Low Alloy steel, High Alloy steel, Stainless Steel, etc.)	Arsenic (As)	JIS G1253
118	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Low Alloy steel, High Alloy steel, Stainless Steel, etc.)	Calcium (Ca)	JIS G1253
119	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Low Alloy steel, High Alloy steel, Stainless Steel, etc.)	Cerium (Ce)	JIS G1253
120	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Low Alloy steel, High Alloy steel, Stainless Steel, etc.)	Lead (Pb)	JIS G1253
121	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Low Alloy steel, High Alloy steel, Stainless Steel, etc.)	Niobium (Nb)	JIS G1253
122	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Low Alloy steel, High Alloy steel, Stainless Steel, etc.)	Nitrogen (N)	JIS G1253





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123	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Low Alloy steel, High Alloy steel, Stainless Steel, etc.)	Titanium (Ti)	JIS G1253
124	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Low Alloy steel, High Alloy steel, Stainless Steel, etc.)	Tungsten (W)	JIS G1253
125	CHEMICAL- METALS & ALLOYS	Iron and Steel (Pig Iron, Cast Iron, Steel, Carbon Steel, Low Alloy steel, High Alloy steel, Stainless Steel, etc.)	Zirconium (Zr)	JIS G1253
126	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Aluminum (Al)	ASTM E415
127	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Aluminum (Al)	IS 8811
128	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Antimony (Sb)	ASTM E415
129	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Arsenic (As)	ASTM E415
130	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Arsenic (As)	IS 8811
131	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Boron (B)	ASTM E415
132	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Boron (B)	IS 8811
133	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Calcium (Ca)	ASTM E415
134	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Carbon (C)	ASTM E415
135	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Carbon (C)	IS 8811
136	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Chromium (Cr)	ASTM E415
137	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Chromium (Cr)	IS 8811



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Niobium (Nb)

Nitrogen (N)

Phosphorus (P)

Phosphorus (P)

IS 8811

ASTM E415

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138	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Cobalt (Co)	ASTM E415	
139	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Cobalt (Co)	IS 8811	
140	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Copper (Cu)	ASTM E415	
141	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Copper (Cu)	IS 8811	
142	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Lead (Pb)	ASTM E415	
143	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Manganese (Mn)	ASTM E415	
144	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Manganese (Mn)	IS 8811	
145	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Molybdenum (Mo)	ASTM E415	
146	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Molybdenum (Mo)	IS 8811	
147	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Nickel (Ni)	ASTM E415	
148	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Nickel (Ni)	IS 8811	
149	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Niobium (Nb)	ASTM E415	

Low, Medium, High Carbon Steel & Low, Medium,

High Alloy Steel

High Alloy Steel

High Alloy Steel

High Alloy Steel





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154	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Silicon (Si)	ASTM E415
155	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Silicon (Si)	IS 8811
156	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Sulfur (S)	ASTM E415
157	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Sulfur (S)	IS 8811
158	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Tin (Sn)	ASTM E415
159	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Tin (Sn)	IS 8811
160	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Titanium (Ti)	ASTM E415
161	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Titanium (Ti)	IS 8811
162	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Vanadium (V)	ASTM E415
163	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Vanadium (V)	IS 8811
164	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Zirconium (Zr)	ASTM E415
165	CHEMICAL- METALS & ALLOYS	Low, Medium, High Carbon Steel & Low, Medium, High Alloy Steel	Zirconium (Zr)	IS 8811
166	CHEMICAL- METALS & ALLOYS	Magnesium and Magnesium Alloys	Aluminum (Al)	ASTM B954
167	CHEMICAL- METALS & ALLOYS	Magnesium and Magnesium Alloys	Beryllium (Be)	ASTM B954
168	CHEMICAL- METALS & ALLOYS	Magnesium and Magnesium Alloys	Cadmium (Cd)	ASTM B954
169	CHEMICAL- METALS & ALLOYS	Magnesium and Magnesium Alloys	Cerium (Ce)	ASTM B954





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170	CHEMICAL- METALS & ALLOYS	Magnesium and Magnesium Alloys	Copper (Cu)	ASTM B954
171	CHEMICAL- METALS & ALLOYS	Magnesium and Magnesium Alloys	Iron (Fe)	ASTM B954
172	CHEMICAL- METALS & ALLOYS	Magnesium and Magnesium Alloys	Lanthanum (La)	ASTM B954
173	CHEMICAL- METALS & ALLOYS	Magnesium and Magnesium Alloys	Lead (Pb)	ASTM B954
174	CHEMICAL- METALS & ALLOYS	Magnesium and Magnesium Alloys	Manganese (Mn)	ASTM B954
175	CHEMICAL- METALS & ALLOYS	Magnesium and Magnesium Alloys	Nickel (Ni)	ASTM B954
176	CHEMICAL- METALS & ALLOYS	Magnesium and Magnesium Alloys	Silicon (Si)	ASTM B954
177	CHEMICAL- METALS & ALLOYS	Magnesium and Magnesium Alloys	Silver (Ag)	ASTM B954
178	CHEMICAL- METALS & ALLOYS	Magnesium and Magnesium Alloys	Tin (Sn)	ASTM B954
179	CHEMICAL- METALS & ALLOYS	Magnesium and Magnesium Alloys	Zinc (Zn)	ASTM B954
180	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Aluminum (Al)	ASTM E3047
181	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Boron (B)	ASTM E3047
182	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Carbon (C)	ASTM E3047
183	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Chromium (Cr)	ASTM E3047
184	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Cobalt (Co)	ASTM E3047
185	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Copper (Cu)	ASTM E3047





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
186	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Cu, Sn, Pb, Ag, Zn, Ni, Mn, Fe	ASTM E1476
187	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Iron (Fe)	ASTM E3047
188	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Magnesium (Mg)	ASTM E3047
189	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Manganese (Mn)	ASTM E3047
190	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Molybdenum (Mo)	ASTM E3047
191	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Nickel (Ni)	ASTM E3047
192	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Niobium (Nb)	ASTM E3047
193	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Nitrogen (N)	ASTM E3047
194	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Phosphorus (P)	ASTM E3047
195	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Silicon (Si)	ASTM E3047
196	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Sulfur (S)	ASTM E3047
197	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tantalum (Ta)	ASTM E3047
198	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tin (Sn)	ASTM E3047
199	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Titanium (Ti)	ASTM E3047
200	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Tungsten (W)	ASTM E3047
201	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Vanadium (V)	ASTM E3047





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202	CHEMICAL- METALS & ALLOYS	Stainless steel, Medium and High Alloy Steel and Duplex Steel	Manganese (Mn)	IS 9879
203	CHEMICAL- METALS & ALLOYS	Stainless steel, Medium and High Alloy Steel and Duplex Steel	Molybdenum (Mo)	IS 9879
204	CHEMICAL- METALS & ALLOYS	Stainless steel, Medium and High Alloy Steel and Duplex Steel	Nickel (Ni)	IS 9879
205	CHEMICAL- METALS & ALLOYS	Stainless steel, Medium and High Alloy Steel and Duplex Steel	Phosphorus (P)	IS 9879
206	CHEMICAL- METALS & ALLOYS	Stainless steel, Medium and High Alloy Steel and Duplex Steel	Silicon (Si)	IS 9879
207	CHEMICAL- METALS & ALLOYS	Stainless steel, Medium and High Alloy Steel and Duplex Steel	Sulfur (S)	IS 9879
208	CHEMICAL- METALS & ALLOYS	Stainless steel, Medium and High Alloy Steel, Tool Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Carbon (C)	ASTM E1086
209	CHEMICAL- METALS & ALLOYS	Stainless steel, Medium and High Alloy Steel, Tool Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Carbon (C)	IS 9879
210	CHEMICAL- METALS & ALLOYS	Stainless steel, Medium and High Alloy Steel, Tool Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Chromium (Cr)	ASTM E1086
211	CHEMICAL- METALS & ALLOYS	Stainless steel, Medium and High Alloy Steel, Tool Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Chromium (Cr)	IS 9879
212	CHEMICAL- METALS & ALLOYS	Stainless steel, Medium and High Alloy Steel, Tool Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Copper (Cu)	ASTM E1086
213	CHEMICAL- METALS & ALLOYS	Stainless steel, Medium and High Alloy Steel, Tool Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Copper (Cu)	IS 9879
214	CHEMICAL- METALS & ALLOYS	Stainless steel, Medium and High Alloy Steel, Tool Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Manganese (Mn)	ASTM E1086





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215	CHEMICAL- METALS & ALLOYS	Stainless steel, Medium and High Alloy Steel, Tool Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Molybdenum (Mo)	ASTM E1086
216	CHEMICAL- METALS & ALLOYS	Stainless steel, Medium and High Alloy Steel, Tool Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Nickel (Ni)	ASTM E1086
217	CHEMICAL- METALS & ALLOYS	Stainless steel, Medium and High Alloy Steel, Tool Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Phosphorus (P)	ASTM E1086
218	CHEMICAL- METALS & ALLOYS	Stainless steel, Medium and High Alloy Steel, Tool Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Silicon (Si)	ASTM E1086
219	CHEMICAL- METALS & ALLOYS	Stainless steel, Medium and High Alloy Steel, Tool Steel, Maraging Steel, High Manganese Steel and Duplex Steel	Sulfur (S)	ASTM E1086
220	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Ti, Mn, Fe, V, Mo	ASTM E1476
221	CHEMICAL- METALS & ALLOYS	Titanium and Titanium Alloys	Aluminum (Al)	ASTM E2994
222	CHEMICAL- METALS & ALLOYS	Titanium and Titanium Alloys	Carbon (C)	ASTM E2994
223	CHEMICAL- METALS & ALLOYS	Titanium and Titanium Alloys	Chromium (Cr)	ASTM E2994
224	CHEMICAL- METALS & ALLOYS	Titanium and Titanium Alloys	Copper (Cu)	ASTM E2994
225	CHEMICAL- METALS & ALLOYS	Titanium and Titanium Alloys	Iron (Fe)	ASTM E2994
226	CHEMICAL- METALS & ALLOYS	Titanium and Titanium Alloys	Manganese (Mn)	ASTM E2994
227	CHEMICAL- METALS & ALLOYS	Titanium and Titanium Alloys	Molybdenum (Mo)	ASTM E2994
228	CHEMICAL- METALS & ALLOYS	Titanium and Titanium Alloys	Nickel (Ni)	ASTM E2994





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229	CHEMICAL- METALS & ALLOYS	Titanium and Titanium Alloys	Niobium (Nb)	ASTM E2994
230	CHEMICAL- METALS & ALLOYS	Titanium and Titanium Alloys	Silicon (Si)	ASTM E2994
231	CHEMICAL- METALS & ALLOYS	Titanium and Titanium Alloys	Tin (Sn)	ASTM E2994
232	CHEMICAL- METALS & ALLOYS	Titanium and Titanium Alloys	Vanadium (V)	ASTM E2994
233	CHEMICAL- METALS & ALLOYS	Titanium and Titanium Alloys	Zirconium (Zr)	ASTM E2994
234	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Fe, Cu, Zn	ASTM E1476
235	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Aluminum (Al)	AS 4699
236	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Antimony (Sb)	AS 4699
237	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Bismuth (Bi)	AS 4699
238	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Cadmium (Cd)	AS 4699
239	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Cerium (Ce)	AS 4699
240	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Chromium (Cr)	AS 4699
241	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Copper (Cu)	AS 4699
242	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Indium (In)	AS 4699
243	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Iron (Fe)	AS 4699
244	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Lanthanum (La)	AS 4699





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245	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Lead (Pb)	AS 4699
246	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Magnesium (Mg)	AS 4699
247	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Manganese (Mn)	AS 4699
248	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Nickel (Ni)	AS 4699
249	CHEMICAL- METALS & ALLOYS	Zinc and Zinc Alloys	Tin (Sn)	AS 4699
250	CHEMICAL- WATER	Water for construction purpose	Acidity	IS 3025 Part 22
251	CHEMICAL- WATER	Water for construction purpose	Alkalinity	IS 3025 Part 23
252	CHEMICAL- WATER	Water for construction purpose	Chloride Content	IS 3025 Part 32
253	CHEMICAL- WATER	Water for construction purpose	Inorganic Impurities (Fixed Solids)	IS 3025 Part 18
254	CHEMICAL- WATER	Water for construction purpose	Neutralization with 0.02 N H2SO4	IS 3025 Part 23
255	CHEMICAL- WATER	Water for construction purpose	Neutralization with 0.02 N NaOH	IS 3025 Part 22
256	CHEMICAL- WATER	Water for construction purpose	Organic Impurities (Volatile Solids)	IS 3025 Part 18
257	CHEMICAL- WATER	Water for construction purpose	рН	IS 3025 Part 11
258	CHEMICAL- WATER	Water for construction purpose	Sulphate Content	IS 3025 Part 24 Sec - 1
259	CHEMICAL- WATER	Water for construction purpose	Total dissolved Solids	IS 3025 Part 16
260	CHEMICAL- WATER	Water for construction purpose	Total Hardness	IS 3025 Part 21
261	CHEMICAL- WATER	Water for construction purpose	Total Suspended Solids Matter	IS 3025 Part 17
262	MECHANICAL- BUILDINGS MATERIALS	Adhesives	Tensile adhesion strengths	IS 15477





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263	MECHANICAL- BUILDINGS MATERIALS	Aggregates	Soundness by MgSO4 and Na2SO4	IS 2386 Part 5
264	MECHANICAL- BUILDINGS MATERIALS	Aggregates	Striping value	IS 6241
265	MECHANICAL- BUILDINGS MATERIALS	Aggregates / Rock	Petrographic Examination	IS 2386 Part 8
266	MECHANICAL- BUILDINGS MATERIALS	Anchor Bars and Rock Bolts / Rebar Grouting	Pull Out Test	IS 11309
267	MECHANICAL- BUILDINGS MATERIALS	Anti Stripping Agent	Boiling Water Test	IS 14982
268	MECHANICAL- BUILDINGS MATERIALS	APP Membrane, Polyethylene Films and Sheets for Concreting Works	Ageing Test	IS 7016 Part 8
269	MECHANICAL- BUILDINGS MATERIALS	APP Membrane, Polyethylene Films and Sheets for Concreting Works	Dart Impact Strength	IS 13360 Part 5 Sec 6
270	MECHANICAL- BUILDINGS MATERIALS	APP Membrane, Polyethylene Films and Sheets for Concreting Works	Thickness	IS 2508
271	MECHANICAL- BUILDINGS MATERIALS	Asphalt Mixtures, Bituminous Mix	Binder content	IRC SP 11
272	MECHANICAL- BUILDINGS MATERIALS	Asphalt Mixtures, Bituminous Mix	Density of Mix	ASTM D2726/D2726M
273	MECHANICAL- BUILDINGS MATERIALS	Asphalt Mixtures, Bituminous Mix	Flow	ASTM D6927
274	MECHANICAL- BUILDINGS MATERIALS	Asphalt Mixtures, Bituminous Mix	Stability	ASTM D6927





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275	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Aerated Concrete Blocks (AAC)	Compressive Strength	IS 6441 Part 5
276	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Aerated Concrete Blocks (AAC)	Density	IS 6441 Part 1
277	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Aerated Concrete Blocks (AAC)	Dimensions - Height, Length, Width	IS 2185 Part 3
278	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Aerated Concrete Blocks (AAC)	Drying Shrinkage	IS 6441 Part 2
279	MECHANICAL- BUILDINGS MATERIALS	Autoclaved Cellular Aerated Concrete Blocks (AAC)	Moisture Content	IS 6441 Part 1
280	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Miscibility of Water	IS 8887
281	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Particle Charge	IS 8887
282	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Penetration	IS 8887
283	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Residue by Evaporation at 163 Degree	IS 8887
284	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Residue on 600 Micron Sieve	IS 8887
285	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Stability of Mixing with Cement	IS 8887
286	MECHANICAL- BUILDINGS MATERIALS	Bitumen Emulsion	Viscosity Saybolt Furel	IS 8887





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287	MECHANICAL- BUILDINGS MATERIALS	Bitumen Max	Theoretical Maximum Specific Gravity and Density	ASTM D2041/D2041M
288	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks	Compressive strength	IS 3495 Part 1
289	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks	Efflorescence	IS 3495 Part 3
290	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks	Warpage	IS 3495 Part 4
291	MECHANICAL- BUILDINGS MATERIALS	Burnt clay bricks	Water absorption	IS 3495 Part 2
292	MECHANICAL- BUILDINGS MATERIALS	Burnt Clay Bricks	Dimension - Length, Width, Height	IS 1077
293	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Tiles	Dimensions & Surface quality, Flatness, Perpendicularity, Straightness	IS 13801, IS 1237
294	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Tiles	Resistance to Wear	IS 13801, IS 1237
295	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Tiles	Water absorption	IS 13801, IS 1237
296	MECHANICAL- BUILDINGS MATERIALS	Cement Concrete Tiles	Wet Transverse Strength	IS 13801, IS 1237
297	MECHANICAL- BUILDINGS MATERIALS	Cementitious materials	Compressive strength	IS 4031 Part 6





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298	MECHANICAL- BUILDINGS MATERIALS	Cementitious materials	Consistency	IS 4031 Part 4
299	MECHANICAL- BUILDINGS MATERIALS	Cementitious materials	Density	IS 4031 Part 11
300	MECHANICAL- BUILDINGS MATERIALS	Cementitious materials	Determination of fineness by dry sieving	IS 4031 Part 1
301	MECHANICAL- BUILDINGS MATERIALS	Cementitious materials	Final setting time	IS 4031 Part 5
302	MECHANICAL- BUILDINGS MATERIALS	Cementitious materials	Fineness by blaine air permeability	IS 4031 Part 2
303	MECHANICAL- BUILDINGS MATERIALS	Cementitious materials	Initial setting time	IS 4031 Part 5
304	MECHANICAL- BUILDINGS MATERIALS	Cementitious materials	Soundness by Le chatelier methods	IS 4031 Part 3
305	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	10% Fines Value	IS 2386 Part 4
306	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Bulk Density	IS 2386 Part 3
307	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Crushing value	IS 2386 Part 4
308	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Elongation index	IS 2386 Part 1
309	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Flakiness index	IS 2386 Part 1





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310	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Impact value	IS 2386 Part 4
311	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Los angles abrasion value (LAA)	IS 2386 Part 4
312	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Sieve Analysis / Particle Shape & Size / Shape tes ratio / Material Finer / Gradation / Grain Size Analysis	
313	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Specific gravity	IS 2386 Part 3
314	MECHANICAL- BUILDINGS MATERIALS	Coarse Aggregates	Water absorption	IS 2386 Part 3
315	MECHANICAL- BUILDINGS MATERIALS	Concrete	RCPT (Rapid Chloride Penetration Test)	ASTM C1202
316	MECHANICAL- BUILDINGS MATERIALS	Curing compounds for concrete	Ford Cup Viscosity	BS 7542
317	MECHANICAL- BUILDINGS MATERIALS	Curing compounds for concrete	Loss of Water	BS 7542
318	MECHANICAL- BUILDINGS MATERIALS	Curing compounds for concrete	Specific Gravity	BS 7542
319	MECHANICAL- BUILDINGS MATERIALS	Door Shutters	Buckling	IS 4020 Part 9
320	MECHANICAL- BUILDINGS MATERIALS	Door Shutters	Edge loading	IS 4020 Part 7





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321	MECHANICAL- BUILDINGS MATERIALS	Door Shutters	End immersion test	IS 4020 Part 13
322	MECHANICAL- BUILDINGS MATERIALS	Door Shutters	Flexure Test	IS 4020 Part 6
323	MECHANICAL- BUILDINGS MATERIALS	Door Shutters	General Flatness	IS 4020 Part 3
324	MECHANICAL- BUILDINGS MATERIALS	Door Shutters	Glue adhesion test	IS 4020 Part 15
325	MECHANICAL- BUILDINGS MATERIALS	Door Shutters	Impact Indentation	IS 4020 Part 5
326	MECHANICAL- BUILDINGS MATERIALS	Door Shutters	Knife test	IS 4020 Part 14
327	MECHANICAL- BUILDINGS MATERIALS	Door Shutters	Local Planeness	IS 4020 Part 4
328	MECHANICAL- BUILDINGS MATERIALS	Door Shutters	Misuse test	IS 4020 Part 11
329	MECHANICAL- BUILDINGS MATERIALS	Door Shutters	Screw withdrawal strength	IS 4020 Part 16
330	MECHANICAL- BUILDINGS MATERIALS	Door Shutters	Shock Resistance	IS 4020 Part 8
331	MECHANICAL- BUILDINGS MATERIALS	Door Shutters	Slamming test	IS 4020 Part 10
332	MECHANICAL- BUILDINGS MATERIALS	Door Shutters	Varying Humidity	IS 4020 Part 12





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333	MECHANICAL- BUILDINGS MATERIALS	Doors & windows, Shuttering, Frames & Formworks	Moisture	IS 2202 Part 1
334	MECHANICAL- BUILDINGS MATERIALS	Fiber Reinforced Polymer Matrix Composite Bars	Tensile Strength (UTS)	ASTM D7205/D7205M
335	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Bulk density & voids	IS 2386 Part 3
336	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Gradation (Sieve analysis 0.015 to 10 mm sieve size)	IS 2386 Part 1
337	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Material finer than 75 micron	IS 2386 Part 1
338	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Specific gravity	IS 2386 Part 3
339	MECHANICAL- BUILDINGS MATERIALS	Fine Aggregates	Water absorption	IS 2386 Part 3
340	MECHANICAL- BUILDINGS MATERIALS	Fly ash bricks	Compressive strength	IS 3495 Part 1
341	MECHANICAL- BUILDINGS MATERIALS	Fly ash bricks	Dimension - Length, Width, Height	IS 13757
342	MECHANICAL- BUILDINGS MATERIALS	Fly ash bricks	Efflorescence	IS 3495 Part 3
343	MECHANICAL- BUILDINGS MATERIALS	Fly ash bricks	Warpage	IS 3495 Part 4
344	MECHANICAL- BUILDINGS MATERIALS	Fly ash bricks	Water absorption	IS 3495 Part 2





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345	MECHANICAL- BUILDINGS MATERIALS	Foundry Sand	Bulk Density	IS 1918
346	MECHANICAL- BUILDINGS MATERIALS	Foundry Sand	Clay Content	IS 1918
347	MECHANICAL- BUILDINGS MATERIALS	Foundry Sand	Grain Fineness	IS 1918
348	MECHANICAL- BUILDINGS MATERIALS	Foundry Sand	Moisture Content	IS 1918
349	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete / Admixture	Bleeding	IS 9103
350	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete / Admixture	Flow	IS 9103, IS 1199 Part 2
351	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete, Admixture, Concrete Mix	Slump test	IS 1199 Part 2, IS 10262
352	MECHANICAL- BUILDINGS MATERIALS	Fresh Concrete	Setting Time	IS 1199 Part 7
353	MECHANICAL- BUILDINGS MATERIALS	Glass beed	Gradation	Morth Sec 803.4.2.3
354	MECHANICAL- BUILDINGS MATERIALS	Glazed Stoneware Pipe	Absorption test ( Water Absorption)	IS 651
355	MECHANICAL- BUILDINGS MATERIALS	Glazed Stoneware Pipe	Resistance to Acids / Alkalis	IS 651
356	MECHANICAL- BUILDINGS MATERIALS	Glazed Stoneware Pipe	Three Edge Bearing Method / Crushing Strength	IS 651





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357	MECHANICAL- BUILDINGS MATERIALS	Ground Granulated Blast Furnace Slag	Glass Content	IS 16714
358	MECHANICAL- BUILDINGS MATERIALS	Ground Granulated Blast Furnace Slag	Moisture Content	IS 16714
359	MECHANICAL- BUILDINGS MATERIALS	Gypsum Building Plaster Board	Dry Set Density	IS 2542 Part 1 Sec 5
360	MECHANICAL- BUILDINGS MATERIALS	Gypsum Building Plaster Board	Free Moisture / Moisture	IS 2542 Part 2 Sec 7
361	MECHANICAL- BUILDINGS MATERIALS	Gypsum Building Plaster Board	Mass of Plaster	IS 2542 Part 2 Sec 3
362	MECHANICAL- BUILDINGS MATERIALS	Gypsum Building Plaster Board	Water Absorption	IS 2542 Part 2 Sec 6
363	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Compressive Strength ( Normal / Accelerated Cured )	IS 516 Part 1 Sec 1
364	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Flexural Strength	IS 516 Part 1 Sec 1, IS 10262
365	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Moisture Movement	IS 516 Part 6
366	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Split Tensile Test	IS 516 Part 1, Sec 1
367	MECHANICAL- BUILDINGS MATERIALS	Hardened Concrete	Water Penetration / Permeability of Concrete	IS 516 Part 2, Sec 1
368	MECHANICAL- BUILDINGS MATERIALS	Hollow & Solid Concrete Blocks	Moisture Movement	IS 2185 Part 1





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369	MECHANICAL- BUILDINGS MATERIALS	Hollow and solid concrete blocks	Dimensions - Height, Length, Width	IS 2185 Part 1
370	MECHANICAL- BUILDINGS MATERIALS	Hollow and solid concrete/Light Weight concrete blocks	Compressive Strength	IS 2185 Part 1, 2
371	MECHANICAL- BUILDINGS MATERIALS	Hollow and solid concrete/Light Weight concrete blocks	Density	IS 2185 Part 1, 2
372	MECHANICAL- BUILDINGS MATERIALS	Hollow and solid concrete/Light Weight concrete blocks	Drying Shrinkage	IS 2185 Part 1, 2
373	MECHANICAL- BUILDINGS MATERIALS	Hollow and solid concrete/Light Weight concrete blocks	Moisture Content	IS 2185 Part 1, 2
374	MECHANICAL- BUILDINGS MATERIALS	Hollow And Solid Light Weight Concrete Blocks	Dimensions - Height, Length, Width	IS 2185 Part 2
375	MECHANICAL- BUILDINGS MATERIALS	Manhole Cover	Dimension Test	IS 1726, IS 12592
376	MECHANICAL- BUILDINGS MATERIALS	Manhole Cover	Load Bearing Test	IS 1726, IS 12592, BS EN 124-1
377	MECHANICAL- BUILDINGS MATERIALS	Mechanical Splices for Steel Reinforcing Bars	% Elongation at maximum force	ASTM A1034
378	MECHANICAL- BUILDINGS MATERIALS	Mechanical Splices for Steel Reinforcing Bars	Tensile Strength (UTS / Pull Out)	ASTM A1034
379	MECHANICAL- BUILDINGS MATERIALS	Paver Block, Interlocking Block, Precast Concrete Blocks	Abrasion Resistance	IS 15658
380	MECHANICAL- BUILDINGS MATERIALS	Paver Block, Interlocking Block, Precast Concrete Blocks	Compressive strength	IS 15658





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381	MECHANICAL- BUILDINGS MATERIALS	Paver Block, Interlocking Block, Precast Concrete Blocks	Flexural strength	IS 15658
382	MECHANICAL- BUILDINGS MATERIALS	Paver Block, Interlocking Block, Precast Concrete Blocks	Tensile Splitting Strength	IS 15658
383	MECHANICAL- BUILDINGS MATERIALS	Paver Block, Interlocking Block, Precast Concrete Blocks	Water Absorption	IS 15658
384	MECHANICAL- BUILDINGS MATERIALS	Pipes for Plumbing & drainage fittings	Color	IS 13592
385	MECHANICAL- BUILDINGS MATERIALS	Pipes for Plumbing & drainage fittings	Dimension	IS 12235 Part 1
386	MECHANICAL- BUILDINGS MATERIALS	Pipes for Plumbing & drainage fittings	Elongation	IS 13360 Part 5 Sec1, IS 12235 Part 13
387	MECHANICAL- BUILDINGS MATERIALS	Pipes for Plumbing & drainage fittings	Resistance to external blows	IS 4985
388	MECHANICAL- BUILDINGS MATERIALS	Pipes for Plumbing & drainage fittings	Tensile Strength	IS 13360 Part 5 Sec1, IS 12235 Part 13
389	MECHANICAL- BUILDINGS MATERIALS	Plaster of Paris	Compressive Strength ( Dry)	IS 2542 Part 1 Sec 5, IS 2547 Part 2
390	MECHANICAL- BUILDINGS MATERIALS	Plywood for General Purpose	Acid & Alkalinity Resistance Test	IS 1734 Part 20
391	MECHANICAL- BUILDINGS MATERIALS	Plywood for General Purpose	Adhesion of plies	IS 1734 Part 5
392	MECHANICAL- BUILDINGS MATERIALS	Plywood for General Purpose	Density, Moisture content	IS 1734 Part 1





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393	MECHANICAL- BUILDINGS MATERIALS	Plywood for General Purpose	Dimension	IS 4020 Part 2
394	MECHANICAL- BUILDINGS MATERIALS	Plywood for General Purpose	Glue shear strength	IS 1734 Part 4
395	MECHANICAL- BUILDINGS MATERIALS	Plywood for General Purpose	Resistance to Dry Heat	IS 1734 Part 2
396	MECHANICAL- BUILDINGS MATERIALS	Plywood for General Purpose	Static bending Strength Modulus of Rupture	IS 1734 Part 11
397	MECHANICAL- BUILDINGS MATERIALS	Plywood for General Purpose	Tensile strength Along the grain	IS 1734 Part 9
398	MECHANICAL- BUILDINGS MATERIALS	Plywood for General Purpose	Water resistance (Glue shear strength)	IS 1734 Part 6
399	MECHANICAL- BUILDINGS MATERIALS	Pozzolanic materials	Compressive strength	IS 1727
400	MECHANICAL- BUILDINGS MATERIALS	Pozzolanic materials	Density	IS 1727
401	MECHANICAL- BUILDINGS MATERIALS	Pozzolanic materials	Fineness Specific surface (Blains)	IS 1727
402	MECHANICAL- BUILDINGS MATERIALS	Pozzolanic materials	Setting time	IS 1727
403	MECHANICAL- BUILDINGS MATERIALS	Pozzolanic materials	Sieve Analysis (45 microns retained)	IS 1727
404	MECHANICAL- BUILDINGS MATERIALS	Pozzolanic materials	Soundness by Le-Chatlier	IS 1727





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405	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Kerbs (Kerb Stone), Channels, Edging, Quadrants and Other Associated Fittings	Bending Strength	IS 5758
406	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Kerbs (Kerb Stone), Channels, Edging, Quadrants and Other Associated Fittings	Dimension, Surface layer thickness	IS 5758
407	MECHANICAL- BUILDINGS MATERIALS	Precast Concrete Kerbs (Kerb Stone), Channels, Edging, Quadrants and Other Associated Fittings	Water Absorption	IS 5758
408	MECHANICAL- BUILDINGS MATERIALS	Preformed Fillers for expansion Joints	Compression	IS 10566
409	MECHANICAL- BUILDINGS MATERIALS	Preformed Fillers for expansion Joints	Density	IS 10566
410	MECHANICAL- BUILDINGS MATERIALS	Preformed Fillers for expansion Joints	Resistance to Handling	IS 1838
411	MECHANICAL- BUILDINGS MATERIALS	Preformed Fillers for expansion Joints	Water Absorption	IS 10566
412	MECHANICAL- BUILDINGS MATERIALS	Prestressing Strands H.T Strands /LRPC Strands	% Elongation (Total elongation)	IS 14268
413	MECHANICAL- BUILDINGS MATERIALS	Prestressing Strands H.T Strands /LRPC Strands	Breaking Strength	IS 14268
414	MECHANICAL- BUILDINGS MATERIALS	Prestressing Strands H.T Strands /LRPC Strands	Cross Section Area	IS 14268
415	MECHANICAL- BUILDINGS MATERIALS	Prestressing Strands H.T Strands /LRPC Strands	Diameter	IS 14268
416	MECHANICAL- BUILDINGS MATERIALS	Prestressing Strands H.T Strands /LRPC Strands	Mass per Meter	IS 14268





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417	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash-Cement Bricks	Compressive Strength	IS 16720
418	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash-Cement Bricks	Density	IS 16720
419	MECHANICAL- BUILDINGS MATERIALS	Pulverized Fuel Ash-Cement Bricks	Water Absorption	IS 16720
420	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Couplers for Mechanical Splices of Steel Bars TMT Coupler	% Elongation at maximum force	IS 16172
421	MECHANICAL- BUILDINGS MATERIALS	Reinforcement Couplers for Mechanical Splices of Steel Bars TMT Coupler	Slip Test	IS 16172
422	MECHANICAL- BUILDINGS MATERIALS	BUILDINGS Reinforcement Couplers for Mechanical Splices of Trensile Strength (UTS /		IS 16172
423	MECHANICAL- BUILDINGS MATERIALS	Sealants	Adhesion and Tensile Modulus	IS 12118 Part 2
424	MECHANICAL- BUILDINGS MATERIALS	Sealants	Consistency	IS 13055
425	MECHANICAL- BUILDINGS MATERIALS	Sealants	Mass loss after Heat Ageing	IS 11433 Part 2
426	MECHANICAL- BUILDINGS MATERIALS	Sheathing Ducts	Tension Load	IS 1343
427	MECHANICAL- BUILDINGS MATERIALS	BUILDINGS Sheathing Ducts Transverse Load Ra		IS 1343
428	MECHANICAL- BUILDINGS MATERIALS	Sheathing Ducts	Water Loss	IS 1343





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429	MECHANICAL- BUILDINGS MATERIALS	Sheathing Ducts	Workability Test	IS 1343
430	MECHANICAL- BUILDINGS MATERIALS	Solid Round Glass Fiber Reinforced Polymer Bars for Concrete Reinforcement	Tensile Strength (UTS)	ASTM D7957/D7957M
431	MECHANICAL- BUILDINGS MATERIALS	Structural bearings	Shore Hardness	BS EN 1337-3
432	MECHANICAL- BUILDINGS MATERIALS	Tar , bituminous materials and Anti Stripping Agent	Flash Point and Fire Point	IS 1209
433	MECHANICAL- BUILDINGS MATERIALS	Tar , bituminous materials and Anti Stripping Agent	Solubility in Diesel	MoRTH Appendix 4
434	MECHANICAL- BUILDINGS MATERIALS	Tar , bituminous materials and Anti Stripping Agent	Water Content	IS 1211
435	MECHANICAL- BUILDINGS MATERIALS	Tar and Bituminous Materials, Sealants	Absolute Viscosity	IS 1206 Part 2
436	MECHANICAL- BUILDINGS MATERIALS	Tar and Bituminous Materials, Sealants	Ductility	IS 1208
437	MECHANICAL- BUILDINGS MATERIALS	Tar and Bituminous Materials, Sealants	Penetration	IS 1203
438	MECHANICAL- BUILDINGS MATERIALS	Tar and Bituminous Materials, Sealants	Softening point	IS 1205
439	MECHANICAL- BUILDINGS MATERIALS	Tar and bituminous materials	Kinematics Viscosity	IS 1206 Part 3
440	MECHANICAL- BUILDINGS MATERIALS	Tar and bituminous materials	Loss on heating	IS 1212





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441	MECHANICAL- BUILDINGS MATERIALS	Tar and Bituminous Materials	Specific gravity	IS 1202
442	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material	Binder content	BS 3262 Part 1
443	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material	Drying Time	AASHTO M249
444	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material	Flow Rasistance	BS 3262 Part 1
445	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material	Glass Beed Content	BS 3262 Part 1
446	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material	Low Temprature Stress Resistance	AASHTO T250
447	MECHANICAL- BUILDINGS MATERIALS	Thermoplastic Road Marking Material	Softening point	ASTM D36/D36M
448	MECHANICAL- BUILDINGS MATERIALS	Tiles (Ceramic Vitrified Glazed / Un Glazed, Flooring, Wall), Stones / Rock	MOHS Scratch Hardness	IS 13630 Part 13
449	MECHANICAL- BUILDINGS MATERIALS	Tiles (Ceramic Vitrified Glazed / Un Glazed, Flooring, Wall)	Breaking Strength, Modulus of Rupture	IS 13630 Part 6
450	MECHANICAL- BUILDINGS MATERIALS	Tiles (Ceramic Vitrified Glazed / Un Glazed, Flooring, Wall)	Dimensions & Surface quality, Flatness, Perpendicularity, Straightness	IS 13630 Part 1
451	MECHANICAL- BUILDINGS MATERIALS	Tiles (Ceramic Vitrified Glazed / Un Glazed, Flooring, Wall)	Resistance to Chemicals - acids and alkalis, house hold chemicals & swimming pool salts	IS 4457, IS 13630 Part 8





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452	MECHANICAL- BUILDINGS MATERIALS	Tiles (Ceramic Vitrified Glazed / Un Glazed, Flooring, Wall)	Water absorption	IS 13630 Part 2
453	MECHANICAL- BUILDINGS MATERIALS	Timber	Moisture	IS 287
454	MECHANICAL- BUILDINGS MATERIALS	Timber and Timber products	Density	IS 1708 Part 1, IS 11215
455	MECHANICAL- BUILDINGS MATERIALS	Water Stop used in Masonry and Concrete dams & Pipes for Plumbing & drainage fittings	Shore Hardness	IS 13360 Part 5 Sec 11
456	MECHANICAL- BUILDINGS MATERIALS	Water Stop used in Masonry and Concrete dams	Accelerated Extraction Test	IS 15058
457	MECHANICAL- BUILDINGS MATERIALS	Water Stop used in Masonry and Concrete dams	Stability in effect of alkalies Test	IS 15058
458	MECHANICAL- BUILDINGS MATERIALS	Water Stop used in Masonry and Concrete dams	Tensile properties	IS 13360 Part 5 Sec 3
459	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Alloy-Steel and Stainless Steel Bolting	Tensile Test, Wedge Tensile, Full Size Tensile, Machined Tensile Test	ASTM A193/A193M
460	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Alloy-Steel and Stainless Steel Bolting	Tensile Test, Wedge Tensile, Full Size Tensile, Machined Tensile Test	ASTM A320/A320M
461	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Arc and gas welded products of steels and arc welded products of nickel and nickel alloys	Tensile Test	BS EN ISO 15614 Part 1





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462	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon and Alloy Steel Nuts	Proof Load Test	ASTM A563/A563M
463	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel and Alloy Steel Nuts	Proof Load Test	IS 1367 Part 6/ ISO 898-2
464	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel and Alloy Steel Nuts	Proof Load Test	ISO 898 Part 2, DIN EN 14399 Part 3
465	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel and Bolts, Screws and Studs	% Elongation	IS 1367 Part 3 / ISO 898-1
466	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel and Bolts, Screws and Studs	% Reduction of Area	IS 1367 Part 3 / ISO 898-1
467	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel and Bolts, Screws and Studs	Proof Load Test	IS 1367 Part 3 / ISO 898-1, BS EN 3692
468	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel and Bolts, Screws and Studs	Tensile Test, Wedge Tensile, Full Size Tensile, Machined Tensile Test	IS 1367 Part 3 / ISO 898-1
469	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel and Bolts, Screws and Studs	Yield Stress, 0.2 to 1.0% Proof Stress	IS 1367 Part 3 / ISO 898-1
470	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Carbon Steel, Alloy Steel, and Stainless Steel Nuts for Bolts	Proof Load Test	ASTM A194/A194M





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471	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Cast Irons	Charpy Impact @ (+) 90 to (-)196 °c with 2 or 8 mm Stricker ( Notched & Unnotched )	ASTM A327/A327M
472	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Adhesion Test (Cross Cut Test/ Tape Test / Cross Hatch Test)	ISO 2409
473	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Colour	IS 101 P4 Sec 2
474	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Drying Film Thickness	ISO 2808
475	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Effect of Heat	IS 101 Part 7 Sec 3
476	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Effect of Heat	ISO 3248
477	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Evaluating Degree of Blistering of Paints	ASTM D714
478	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments	ASTM D1654
479	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Film Hardness by Pencil Test	IS 101 Part 5 Sec. 1





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480	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Flexibility Test	IS 101 Part 5 Sec 2
481	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Gloss Value	ASTM D523
482	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Gloss Value	IS 101 Part 4 Sec. 4
483	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Humidity and Cool Heat Cycling Tes	JIS K5600-7-4
484	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Impact resistance Falling weight test	IS 101 Part 5 Sec3
485	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Resistance to acid & Alkali	IS 9862, ASTM D1308
486	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Resistance to Humidity	IS 101 Part 6 Sec 1
487	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Resistance to Humidity	ISO 3270
488	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Resistance to Humidity	ISO 6270-1





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489	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Resistance to liquids	IS 101 Part 7 Sec 2
490	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Resistance to water	ASTM D1735, ASTM D2616, ASTM D2247, ASTM D4585
491	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Resistance to water	ASTM D870
492	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Resistance to Water	IS 101 P7 Sec1
493	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Resistance to water	IS 101 Part 7 Sec. 1
494	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Scratch Hardness	IS 101 P5 Sec2
495	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted Products	Bend Test	ISO 6860
496	MECHANICAL- MECHANICAL PROPERTIES OF METALS	DTI Washer	Compression Test	BS EN 14399-9
497	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets	Proof Load Test	ASTM F606/F606M





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(GSM)

ISO 1460

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498	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets	Tensile Test, Wedge Tensile, Full Size Tensile, Machined Tensile Test	ASTM F606/F606M
499	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Fasteners	Decarburization Depth (micro-indentation hardness)	IS 1367 Part 3/6
-				

Hot dip galvanized coatined ferrous materials





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507	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Hot Rolled Steel Beam Column Channel and Angle	Weight per meter	IS 808
508	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Hot-Dip Galvanized Coated Round Steel Wires	Mass of Zinc Coating (GSM)	IS 4826
509	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Hot-Dip Galvanizing of Iron and Steel	Adhesion Test	IS 2629
510	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Hot-Dip Galvanizing of Iron and Steel	Knife test	IS 2629
511	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Hot-Dip Galvanizing of Iron and Steel	Uniformity of Zinc Coating (Preece Test)	IS 2633
512	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Iron and Steel Articles	Mass of Zinc Coating (GSM)	ASTM A90/A90M
513	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Material	% Elongation	ASTM E8/E8M
514	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Material	% Reduction of Area	ASTM E8/E8M
515	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Material	Bend	ASTM E290





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516	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Material	Charpy Impact @ (+) 90 to (-)196 °c with 2 or 8 mm Stricker	ASTM E23
517	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Material	Charpy Impact up to (- )196 °C	AS 1544.2
518	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Material	Ultimate Tensile Strength/Stress (UTS)	ASTM E8/E8M
519	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Material	Vickers Hardness Test, Scale: HV1, HV0.3, HV0.2	ASTM E384
520	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Material	Vickers Hardness Test, Scale: HV30, HV10, HV5, HV2, HV1, HV0.3, HV0.2	ASTM E92
521	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Material	Yield Stress, 0.2 to 1.0% Proof Stress	ASTM E8/E8M
522	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	IS 1608 Part 1 / ISO 6892-1
523	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Reduction of Area	IS 1608 Part 1 / ISO 6892-1
524	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend	IS 1599 / ISO 7438





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525	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test, Scale: HBW2.5/187.5, HBW5/250, HBW5/750, HBW10/3000	ASTM E10
526	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Brinell Hardness Test, Scale: HBW2.5/187.5, HBW5/250, HBW5/750, HBW10/3000	IS 1500 Part 1 / ISO 6506-1
527	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Charpy Impact @ (+) 90 to (-)196 °c with 2 or 8 mm Stricker	IS 1757 Part 1 / ISO 148-1
528	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Compression Testing	ASTM E9
529	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Rockwell Hardness Test, Scale: A, B, C	ASTM E18
530	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Solvent Rub Test (MEK Resistance)	ASTM D4752
531	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Surface Roughness	ASTM D4417
532	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Surface Roughness	IS 3073
533	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Surface Roughness	ISO 3274





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534	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength/Stress (UTS)	IS 1608 Part 1 / ISO 6892-1
535	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Vickers Hardness Test, Scale: HV30, HV10, HV5, HV2, HV1, HV0.3, HV0.2	IS 1501 Part 1 / ISO 6507-1
536	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress, 0.2 to 1.0% Proof Stress	IS 1608 Part 1 / ISO 6892-1
537	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials & Welded Items	Brinell Hardness Test, Scale: HBW2.5/187.5, HBW5/250, HBW5/750, HBW10/3000	ISO 6506-1, ISO 9015-1
538	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials & Welded Items	Rockwell Hardness Test, Scale: A, B, C	IS 1586 Part 1 / ISO 6508-1
539	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials & Welded Items	Vickers Hardness Test, Scale: HV30, HV10, HV5, HV2, HV1, HV0.3, HV0.2	ISO 6507-1, ISO 9015-1
540	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials - Tube	Ring Tensile Test	IS 12278 / ISO 8496
541	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials - Wire	Wrapping Test	IS 1755
542	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials- Tube	Bend	IS 2329





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543	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials- Tube	Flattening Test	IS 2328
544	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	AS 1391
545	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Elongation	JIS Z2241
546	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Reduction of Area	AS 1391
547	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	% Reduction of Area	JIS Z2241
548	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Bend Test	ISO 7438
549	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Jominy	SAE J406
550	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength/Stress (UTS)	AS 1391
551	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Ultimate Tensile Strength/Stress (UTS)	JIS Z2241





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552	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress, 0.2 to 1.0% Proof Stress	AS 1391
553	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Materials	Yield Stress, 0.2 to 1.0% Proof Stress	JIS Z2241
554	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Tubular Products	% Elongation	GOST 10006
555	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Tubular Products	Flattening Test	BS EN ISO 8492
556	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Tubular Products	Flattening Test	GOST 8695
557	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Tubular Products	Ultimate Tensile Strength/Stress (UTS)	GOST 10006
558	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Tubular Products	Yield Stress, 0.2 to 1.0% Proof Stress	GOST 10006
559	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Welded Items	% Elongation	IS 3600 Part 3 & 4, IS 7307 Part 1 & IS 7310
560	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Welded Items	% Reduction of Area	IS 3600 Part 3 & 4, IS 7307 Part 1 & IS 7310





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561	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Welded Items	Bend	IS 3600 Part 5 & 7, IS 7307 Part 1 & IS 7310
562	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Welded Items	Fracture Test, Nick Break Test	IBR REG 1950
563	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Welded Items	Fracture Test, Nick Break Test	ISO 9017
564	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Welded Items	Impact	IS 3600 Part 2, IS 7307 Part 1 & IS 7310
565	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Welded Items	Impact Tests	ISO 9016
566	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Welded Items	Nick Break Test, Fracture Test	IS 3600 Part 8, IS 7307 Part 1 & IS 7310
567	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Welded Items	Ultimate Tensile Strength/Stress (UTS)	IS 3600 Part 3 & 4, IS 7307 Part 1 & IS 7310
568	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metallic Welded Items	Yield Stress, 0.2 to 1.0% Proof Stress	IS 3600 Part 3 & 4, IS 7307 Part 1 & IS 7310
569	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals	Izod Impact Test	IS 1598





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570	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals	Shear Test	ASTM F606/F606M
571	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals	Shear Test	IS 5242
572	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metals	Torque Test	IS 1367 Part 20 / ISO 898-7
573	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-alloyed and low-alloyed cast irons	Tensile Test	BS EN ISO 15614-3
574	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Painted or Coated Specimens	Adhesion Test (Cross Cut Test/ Tape Test / Cross Hatch Test)	ASTM D3359
575	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Painted or Coated Specimens	Adhesion Test (Cross Cut Test/ Tape Test / Cross Hatch Test)	IS 14246
576	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Painted or Coated Specimens	Bend Test (Conical Mandrel only)	ASTM D522/D522M
577	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Painted or Coated Specimens	Drop Impact	ASTM D2794
578	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Painted or Coated Specimens	Film Hardness by Pencil Test	ASTM D3363





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579	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Painted Products / Panels / Raw Materials	Coating Thickness by Elcometer	ASTM B499
580	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Painted Products / Panels / Raw Materials	Coating Thickness by Elcometer	IS 101 Part 3, Sec. 2
581	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Painted Products / Panels / Raw Materials	Coating Thickness by Elcometer	IS 3203
582	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Painted Products / Panels / Raw Materials	Coating Thickness by Elcometer	ISO 2178
583	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Painted Products / Panels / Raw Materials	Tensile Test, Wedge Tensile Test, Full Size Tensile, Machined test Piece	ASTM A370, ASME SA370
584	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless	Bend Test	ASTM A53/A53M
585	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Pipelines And Related Facilities, Welded Pipes	% Elongation	API Standard 1104
586	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Pipelines And Related Facilities, Welded Pipes	Bend	API Standard 1104
587	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Pipelines And Related Facilities, Welded Pipes	Fracture Test, Nick Break Test	API Standard 1104





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588	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Pipelines And Related Facilities, Welded Pipes	Ultimate Tensile Strength/Stress (UTS)	API Standard 1104
589	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Pipelines And Related Facilities, Welded Pipes	Yield Stress, 0.2 to 1.0% Proof Stress	API Standard 1104
590	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Rivets	Diameter	IS 1929, IS 1148
591	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Seamless Carbon Steel Pipe	Bend Test	ASTM A106/A106M
592	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Stainless Steel Bolts, screws and studs	Proof Load Test	BS EN ISO 3506-1
593	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Stainless Steel Bolts, screws and studs	Tensile Test, Wedge Tensile, Full Size Tensile, Machined Tensile Test	BS EN ISO 3506-1
594	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Stainless Steel Nuts	Proof Load Test	BS EN ISO 3506-2
595	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Stainless Steel Parts	Ferroxyl Test	ASTM A380 CI 7.3.4
596	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Stainless Steel Parts	Water Immersion Test, Practice A	ASTM A967





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597	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel	Decarburization Depth (Microindentation hardness methods)	ASTM E1077
598	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel	Decarburization Depth (micro-indentation hardness)	IS 6396 /ISO 3887
599	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel	Effective Case Depth by Micro Vickers Hardness	IS 6416
600	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Pipes	Weight per meter	IS 3589
601	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	% Elongation	ASTM A370, ASME SA370
602	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	% Reduction of Area	ASTM A370, ASME SA370
603	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	Bend Test	ASTM A370, ASME SA370
604	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	Brinell Hardness Test, Scale: HBW2.5/187.5, HBW5/250, HBW5/750, HBW10/3000	ASTM A370, ASME SA370
605	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	Charpy Impact @ (+) 90 to (-)196 °c with 2 or 8 mm Stricker	ASTM A370, ASME SA370





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606	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	Flaring (Drift expansion)	ASTM A370, ASME SA370
607	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	Flattening Test	ASTM A370, ASME SA370
608	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	Proof Load Test	ASTM A370, ASME SA370
609	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	Rockwell Hardness Test, Scale: A, B, C	ASTM A370, ASME SA370
610	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	Ultimate Tensile Strength/Stress (UTS)	ASTM A370, ASME SA370
611	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Products	Yield Stress, 0.2 to 1.0% Proof Stress	ASTM A370, ASME SA370
612	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Reinforcing bars, rods and wire	% Elongation	ISO 15630-1
613	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Reinforcing bars, rods and wire	Ultimate Tensile Strength/Stress (UTS)	ISO 15630-1
614	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Reinforcing bars, rods and wire	Yield Stress, 0.2 to 1.0% Proof Stress	ISO 15630-1





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615	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel sections	Weight per meter	IS 4923
616	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Tubes	Bend	IS 1239 Part 1
617	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel tubes	Crushing Test	IS 3601
618	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Tubes	Weight per meter	IS 1239 Part 1
619	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel	Hardenability (End Quenched or Jominy) Test	ASTM A255
620	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel	Hardenability (End Quenched or Jominy) Test	IS 3848
621	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Threaded Fasteners	Proof Load Test	SAE J429
622	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Threaded Fasteners	Tensile Test, Wedge Tensile, Full Size Tensile, Machined Tensile Test	SAE J429
623	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Tube & Pipes	Thickness	IS 1161





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624	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Washer	Permanent Load / Set Test	IS 3063
625	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Washer	Twist Test	IS 3063
626	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	% Elongation	ISO 5178
627	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Ultimate Tensile Strength/Stress (UTS)	ISO 5178
628	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Weld in Metallic Materials	Yield Stress, 0.2 to 1.0% Proof Stress	ISO 5178
629	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded metallic materials	% Elongation	ISO 4136
630	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded metallic materials	% Reduction of Area	ISO 4136
631	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded metallic materials	Bend Test	ISO 5173
632	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded metallic materials	Ultimate Tensile Strength/Stress (UTS)	ISO 4136





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633	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welded metallic materials	Yield Stress, 0.2 to 1.0% Proof Stress	ISO 4136
634	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welding Rods, Electrodes, and Filler Metals	% Elongation	ASME BPVC Section II- Materials-Part C
635	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welding Rods, Electrodes, and Filler Metals	% Reduction of Area	ASME BPVC Section II- Materials-Part C
636	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welding Rods, Electrodes, and Filler Metals	Bend	ASME BPVC Section II- Materials-Part C
637	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welding Rods, Electrodes, and Filler Metals	Ultimate Tensile Strength/Stress (UTS)	ASME BPVC Section II- Materials-Part C
638	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welding Rods, Electrodes, and Filler Metals	Yield Stress, 0.2 to 1.0% Proof Stress	ASME BPVC Section II- Materials-Part C
639	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	% Elongation	IBR REG 1950
640	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	% Reduction of Area	IBR REG 1950
641	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Bend Test	IBR REG 1950





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642	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Bend Test	AWS B4.0
643	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Bend	ASTM E190
644	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Charpy Impact @ (+) 90 to (-)196 °c with 2 or 8 mm Stricker	AWS B4.0
645	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Fracture Test, Nick Break Test	AWS B4.0
646	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Hardness Test	AWS B4.0
647	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Ultimate Tensile Strength/Stress (UTS)	IBR REG 1950
648	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Yield Stress, 0.2 to 1.0% Proof Stress	IBR REG 1950
649	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Bend Test	AWS D1.1/D1.1M
650	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds & welded test specimens	Fracture Test, Nick Break Test	AWS D1.1/D1.1M





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651	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds and Welded, Brazed, Fused, Soldered test specimens & Products	% Elongation	ASME BPVC Section IX
652	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds and Welded, Brazed, Fused, Soldered test specimens & Products	% Reduction of Area	ASME BPVC Section IX
653	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds and Welded, Brazed, Fused, Soldered test specimens & Products	Bend	ASME BPVC Section IX
654	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds and Welded, Brazed, Fused, Soldered test specimens & Products	Charpy Impact @ (+) 90 to (-)196 °c with 2 or 8 mm Stricker	ASME BPVC Section IX
655	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds and Welded, Brazed, Fused, Soldered test specimens & Products	Fracture Test, Nick Break Test	ASME BPVC Section IX
656	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds and Welded, Brazed, Fused, Soldered test specimens & Products	Ultimate Tensile Strength/Stress (UTS)	ASME BPVC Section IX
657	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Welds and Welded, Brazed, Fused, Soldered test specimens & Products	Yield Stress, 0.2 to 1.0% Proof Stress	ASME BPVC Section IX
658	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Wire Strand, Prestressing Strands HT Strand, LRPC Strands, Barbed Wire, Fencing Wire	% Elongation	ASTM A1061/A1061M
659	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Wire Strand, Prestressing Strands HT Strand, LRPC Strands, Barbed Wire, Fencing Wire	Ultimate Tensile Strength/Stress (UTS)	ASTM A1061/A1061M





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660	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum- and Magnesium- Alloy Products	% Elongation	ASTM B557/B557M
661	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum- and Magnesium- Alloy Products	% Reduction of Area	ASTM B557/B557M
662	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum- and Magnesium- Alloy Products	Ultimate Tensile Strength/Stress (UTS)	ASTM B557/B557M
663	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Wrought and Cast Aluminum- and Magnesium- Alloy Products	Yield Stress, 0.2 to 1.0% Proof Stress	ASTM B557/B557M
664	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Zinc coated iron and steel articles	Mass of Zinc Coating (GSM)	IS 6745
665	MECHANICAL- METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Method A, Ferric chloride pitting test	ASTM G48
666	MECHANICAL- METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Method B, Ferric chloride crevice test.	ASTM G48
667	MECHANICAL- METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Method C (Critical Pitting Temperature Test)	ASTM G48
668	MECHANICAL- METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Method D (Critical Crevice Temperature Test)	ASTM G48
669	MECHANICAL- METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Method E, Critical pitting temperature test for stainless steels.	ASTM G48





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670	MECHANICAL- METALLOGRAPHY TEST	Stainless Steels and Related Alloys	Method F (Critical Crevice Temperature Test)	ASTM G48
671	MECHANICAL- METALLOGRAPHY TEST	Austenitic Stainless Steels	Monypenny Strauss Test	IS 10461 Part 2
672	MECHANICAL- METALLOGRAPHY TEST	Austenitic Stainless Steels	IGC, Huey Test	IS 10461 Part 1
673	MECHANICAL- METALLOGRAPHY TEST	Austenitic stainless steels	IGC, Huey test	ISO 3651 Part 1
674	MECHANICAL- METALLOGRAPHY TEST	Austenitic Stainless Steels	Practice A, Oxalic Acid Etch Test	ASTM A262
675	MECHANICAL- METALLOGRAPHY TEST	Austenitic Stainless Steels	Practice B, Ferric Sulfate- Sulfuric Acid Test	ASTM A262
676	MECHANICAL- METALLOGRAPHY TEST	Austenitic Stainless Steels	Practice C, Nitric Acid Test	ASTM A262
677	MECHANICAL- METALLOGRAPHY TEST	Austenitic Stainless Steels	Practice E, Copper-Copper Sulfate - 16% Sulfuric Acid Test	ASTM A262
678	MECHANICAL- METALLOGRAPHY TEST	Austenitic Stainless Steels	Practice F, Copper-Copper Sulfate - 50% Sulfuric Acid Test	ASTM A262
679	MECHANICAL- METALLOGRAPHY TEST	Austentic Stainless Steels	Method A, The 16% Sulfuric Acid/Copper Sulfate Test ( Monypenny Strauss Test)	ISO 3651 Part 2
680	MECHANICAL- METALLOGRAPHY TEST	Austentic Stainless Steels	Method B, The 35% Sulfuric Acid/Copper Sulfate Test	ISO 3651 Part 2





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681	MECHANICAL- METALLOGRAPHY TEST	Austentic Stainless Steels	Method C, The 40% Sulfuric Acid/Copper Sulfate Test	ISO 3651 Part 2
682	MECHANICAL- METALLOGRAPHY TEST	Autenitic Stainless Steel Castings	Ferrite content, Chemical Composition method	IS 15839
683	MECHANICAL- METALLOGRAPHY TEST	Bearing Steel	Carbide Structure	SEP 1520
684	MECHANICAL- METALLOGRAPHY TEST	Cast Iron (CI, SGI, MCI, WCI, NCI etc.)	Micro Examination	ISO 945-1, 2
685	MECHANICAL- METALLOGRAPHY TEST	Cast Iron	Size & Distribution Of Graphite Flake & Nodular	ASTM A247
686	MECHANICAL- METALLOGRAPHY TEST	Cast Iron	Size & Distribution Of Graphite Flake & Nodular	IS 7754
687	MECHANICAL- METALLOGRAPHY TEST	Cleanliness of Components & Systems for Road Vehicles	Particle Size and Count Analysis (Millipore Testing)	ISO 16232 CI 10.8.3
688	MECHANICAL- METALLOGRAPHY TEST	Cleanliness of Components & Systems for Road Vehicles	Particle Size and Count Analysis (Millipore Testing)	ISO 4406
689	MECHANICAL- METALLOGRAPHY TEST	Cleanliness of Components & Systems for Road Vehicles	Particle Size and Count Analysis (Millipore Testing)	ISO 4407 CI 5.9
690	MECHANICAL- METALLOGRAPHY TEST	Coated / Painted / Plated Products	Coating Thickness ( by Microscopic Method )	ISO 1463
691	MECHANICAL- METALLOGRAPHY TEST	Coated / Painted / Plated Products	Coating Thickness by Microscopic Method	ASTM B487
692	MECHANICAL- METALLOGRAPHY TEST	Coated / Painted / Plated Products	Coating Thickness by Microscopic Method	IS 3203





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693	MECHANICAL- METALLOGRAPHY TEST	Copper Alloys	Mercurous Nitrate Test	ASTM B154
694	MECHANICAL- METALLOGRAPHY TEST	Copper Alloys	Mercurous Nitrate Test	IS 2305
695	MECHANICAL- METALLOGRAPHY TEST	copper alloys with zinc	Determination of dezincification resistance	ISO 6509-1
696	MECHANICAL- METALLOGRAPHY TEST	Copper and copper alloys	Estimation of average grain size	ISO 2624
697	MECHANICAL- METALLOGRAPHY TEST	Ductile Iron	Determining Nodularity And Nodule Count	ASTM E2567
698	MECHANICAL- METALLOGRAPHY TEST	Duplex Austenitic / Ferritic Stainless Steels	Test Method A- Sodium Hydroxide Etch Test	ASTM A923, ASTM A1084
699	MECHANICAL- METALLOGRAPHY TEST	Duplex Austenitic / Ferritic Stainless Steels	Test Method B- Charpy Impact Test	ASTM A923, ASTM A1084
700	MECHANICAL- METALLOGRAPHY TEST	Duplex Austenitic / Ferritic Stainless Steels	Test Method C- Ferric Chloride Corrosion Test	ASTM A923, ASTM A1084
701	MECHANICAL- METALLOGRAPHY TEST	Ferritic / Austenitic (Duplex) stainless steels	Microstructure Examination	ISO 17781
702	MECHANICAL- METALLOGRAPHY TEST	Ferritic Stainless Steel	Practice W- Oxalic Acid Etch Test	ASTM A763
703	MECHANICAL- METALLOGRAPHY TEST	Ferritic Stainless Steel	Practice Z- Copper- Copper Sulfate-16 % Sulfuric Acid Test	ASTM A763
704	MECHANICAL- METALLOGRAPHY TEST	Ferrous and Non-Ferrous Material	Volume Fraction	ASTM E562, ASTM E1245





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705	MECHANICAL- METALLOGRAPHY TEST	Metallic Materials, Steel Bar , Billets , Blooms, And Forgings	Grain Size Measurement	ASTM E112, ASTM E1382
706	MECHANICAL- METALLOGRAPHY TEST	Metallic Materials	Case Depth	SAE J423
707	MECHANICAL- METALLOGRAPHY TEST	Metallic Materials	Degree of Banding	ASTM E1268
708	MECHANICAL- METALLOGRAPHY TEST	Metallic Materials	Grain Size Measurement	IS 4748 / ISO 643
709	MECHANICAL- METALLOGRAPHY TEST	Metallic Materials	Macro / Micro Examination	ASTM E3, ASTM E1558, ASTM E407, ASTM E1351, ASTM A800
710	MECHANICAL- METALLOGRAPHY TEST	Metallic Materials	Macro, Micro, Visual Examination, Weld Penetration, Weld Measurement, Porosity	ASM Hand Book Vol. 9
711	MECHANICAL- METALLOGRAPHY TEST	Metallic Welded Items	Macro / Micro Examination	BS EN ISO 17639
712	MECHANICAL- METALLOGRAPHY TEST	Metallic Welded Items	Macro / Micro Examination	IBR REG 1950
713	MECHANICAL- METALLOGRAPHY TEST	Metallic Welded Items	Macro / Micro Examination	IS 3600 Part 9, IS 7307 Part 1 & IS 7310
714	MECHANICAL- METALLOGRAPHY TEST	Metallic Welded Items	Macro / Micro Examination	IS 7739 Part 1, 2, 3, 4 & 5
715	MECHANICAL- METALLOGRAPHY TEST	Metallic Welded Items	Macro / Micro Examination	ISO/TR 16060





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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
716	MECHANICAL- METALLOGRAPHY TEST	Metallic Welded Items	Macro, Micro, Visual Examination, Weld Penetration, Weld Measurement, Porosity	ASME BPVC Section IX
717	MECHANICAL- METALLOGRAPHY TEST	Metallic Welded Items	Macro, Micro, Visual Examination, Weld Penetration, Weld Measurement, Porosity	AWS B4.0
718	MECHANICAL- METALLOGRAPHY TEST	Steel	Macro / Micro Examination	BS EN ISO 15614-3
719	MECHANICAL- METALLOGRAPHY TEST	Steel	Macro / Micro Examination	ISO 4969
720	MECHANICAL- METALLOGRAPHY TEST	Steel	Macro Streak Flaw	IS 4075
721	MECHANICAL- METALLOGRAPHY TEST	Steel Bar , Billets , Blooms, And Forgings	Macroetch	ASTM E340
722	MECHANICAL- METALLOGRAPHY TEST	Steel Bar , Billets , Blooms, And Forgings	Macroetch	ASTM E381
723	MECHANICAL- METALLOGRAPHY TEST	Steel	Case Depth (Microscopic Method)	IS 6416
724	MECHANICAL- METALLOGRAPHY TEST	Steel	Decarburization Depth (Microscopic Method)	ASTM E1077
725	MECHANICAL- METALLOGRAPHY TEST	Steel	Decarburization Depth (Microscopic Method)	IS 6396 /ISO 3887
726	MECHANICAL- METALLOGRAPHY TEST	Steel	Inclusion Rating	ASTM E45





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727	MECHANICAL- METALLOGRAPHY TEST	Steel	Inclusion Rating	IS 4163 /ISO 4967
728	MECHANICAL- METALLOGRAPHY TEST	Welds & welded test specimens	Macro/Micro Examination	AWS D1.1/D1.1M
729	MECHANICAL- METALLOGRAPHY TEST	Welds & Welded Test Specimens	Macro / Micro Examination	API Standard 1104
730	MECHANICAL- METALLOGRAPHY TEST	Wrought Aluminium and Aluminium Alloy Products	Macro Etch Test	IS 12573
731	MECHANICAL- METALLOGRAPHY TEST	Wrought Steel Products	Macroetch	IS 11371
732	MECHANICAL- METALLOGRAPHY TEST	Wrought, Nickel-Rich, Chromium-Bearing Alloys	Method A, Ferric Sulfate- Sulfuric Acid Test	ASTM G28
733	MECHANICAL- METALLOGRAPHY TEST	Wrought, Nickel-Rich, Chromium-Bearing Alloys	Method B, Mixed Acid- Oxidizing Salt Test	ASTM G28
734	MECHANICAL- SOIL AND ROCK	Clays & Soils	Consolidation Test, CC	IS 2720 Part 15
735	MECHANICAL- SOIL AND ROCK	Clays & Soils	Consolidation Test, Cv	IS 2720 Part 15
736	MECHANICAL- SOIL AND ROCK	Clays & Soils	Consolidation Test, Pc	IS 2720 Part 15
737	MECHANICAL- SOIL AND ROCK	Clays & Soils	Direct Shear Test (DST) Angle of internal friction	IS 2720 Part 13
738	MECHANICAL- SOIL AND ROCK	Clays & Soils	Direct Shear Test (DST) Cohesion	IS 2720 Part 13
739	MECHANICAL- SOIL AND ROCK	Clays & Soils	Hydrometer Analysis	IS 2720 Part 4
740	MECHANICAL- SOIL AND ROCK	Clays & Soils	Light compaction - MDD	IS 2720 Part 7





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741	MECHANICAL- SOIL AND ROCK	Clays & Soils	Light compaction- OMC	IS 2720 Part 7
742	MECHANICAL- SOIL AND ROCK	Clays & Soils	Shrinkage Limit	IS 2720 Part 6
743	MECHANICAL- SOIL AND ROCK	Clays & Soils	Specific gravity	IS 2720 Part 3 sec-1
744	MECHANICAL- SOIL AND ROCK	Clays & Soils	Triaxial Shear test, Angle of internal friction	IS 2720 Part 12
745	MECHANICAL- SOIL AND ROCK	Clays & Soils	Triaxial Shear test, Cohesion	IS 2720 Part 12
746	MECHANICAL- SOIL AND ROCK	Clays & Soils	Unconfined Compressive Strength (UCS)	IS 2720 Part 10
747	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Apparent / True porosity	IS 1124
748	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Apparent / True Specific Gravity	IS 1124
749	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Compressive Strength	IS 1121 Part 1
750	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Resistance to wear	IS 1706
751	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Split Tensile Strength	IS 1121 Part 3
752	MECHANICAL- SOIL AND ROCK	Natural Building Stone	Water Absorption	IS 1124
753	MECHANICAL- SOIL AND ROCK	Soil, Clays, GSB, WMM, Bentonite	Liquid Limit	IS 2720 Part 5
754	MECHANICAL- SOIL AND ROCK	Soil, Clays, GSB, WMM, Bentonite	Plastic Limit	IS 2720 Part 5
755	MECHANICAL- SOIL AND ROCK	Soil, Clays, GSB, WMM, WBM	California Bearing Ratio (CBR)	IS 2720 Part 16
756	MECHANICAL- SOIL AND ROCK	Soil, Clays, GSB, WMM, WBM	Permeability	IS 2720 Part 17





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757	MECHANICAL- SOIL AND ROCK	Soil, Clays, GSB, WMM	Heavy compaction, MDD	IS 2720 Part 8
758	MECHANICAL- SOIL AND ROCK	Soil, Clays, GSB, WMM	Heavy compaction-OMC	IS 2720 Part 8
759	MECHANICAL- SOIL AND ROCK	Soil, Clays	Free Swell Index (FSI)	IS 2720 Part 40
760	MECHANICAL- SOIL AND ROCK	Soil	Gradation (Sieve analysis 0.015 to 125 mm sieve size)	IS 2720 Part 4
761	MECHANICAL- SOIL AND ROCK	Stones / Rock	Compressive Strength (UCS)	IS 9143
762	MECHANICAL- SOIL AND ROCK	Stones / Rock	Density	IS 13030
763	MECHANICAL- SOIL AND ROCK	Stones / Rock	Indirect Tensile strength (by Line Load test)	IS 10082
764	MECHANICAL- SOIL AND ROCK	Stones / Rock	Point load index	IS 8764
765	MECHANICAL- SOIL AND ROCKS	Clays and Soils	Electrical Resistivity by Wenner's Four Electrode method ( By Soil Box )	ASTM G57
766	MECHANICAL- SOIL AND ROCKS	Soil, Clays, GSB, WMM, WBM	Water content %	IS 2720 Part 2
767	MECHANICAL- SOIL AND ROCKS	Stones / Rock	Water Content	IS 13030
768	MECHANICAL- TEXTILE MATERIALS	Geogrids	Wide Width Tensile and Elongation	ASTM D6637/D6637M
769	MECHANICAL- TEXTILE MATERIALS	Geomembranes and Related Products	Index Puncture Resistance	ASTM D4833/D4833M
770	MECHANICAL- TEXTILE MATERIALS	Geomembranes	Wide Width Tensile and Elongation	ASTM D4885
771	MECHANICAL- TEXTILE MATERIALS	Geosynthetics	Wide Width Tensile Elongation	IS 16635 / ISO 10319
772	MECHANICAL- TEXTILE MATERIALS	Geosynthetics	Static ( CBR) Puncture Resistance	ISO 12236





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773	MECHANICAL- TEXTILE MATERIALS	Geosynthetics	Thickness at 2 kpa	ASTM D5199
774	MECHANICAL- TEXTILE MATERIALS	Geotextiles (Woven and Non Woven)	Aparent Opning Size	IS 14294
775	MECHANICAL- TEXTILE MATERIALS	Geotextiles (Woven and Non Woven)	Mass per Unit Area	ASTM D5261
776	MECHANICAL- TEXTILE MATERIALS	Geotextiles and Geotextile-Related Products	Mass per Unit Area	IS 14716
777	MECHANICAL- TEXTILE MATERIALS	Geotextiles and Geotextile-related products	Mass per Unit Area	ISO 9864
778	MECHANICAL- TEXTILE MATERIALS	Geotextiles and Geotextile-Related Products	Static ( CBR) Puncture Resistance	ASTM D6241
779	MECHANICAL- TEXTILE MATERIALS			IS 13162 Part 4
780	MECHANICAL- TEXTILE MATERIALS	Geotextiles	Thickness at 2 kpa	IS 13162 Part 3 / ISO 9863-1
781	MECHANICAL- TEXTILE MATERIALS	Geotextiles	Wide Width Tensile and Elongation	ASTM D4595/D4595M
782	MECHANICAL- TEXTILE MATERIALS	Nonreinforced Polyethylene and Nonreinforced Flexible Polypropylene Geomembranes, Geo Cell, Geogrid, Geo strips	Tensile Test	ASTM D6693/D6693M
783	MECHANICAL- TEXTILE MATERIALS	Ropes & Cordages	Breaking Load & Elongation	IS 7071 / ISO 2307
784	MECHANICAL- TEXTILE MATERIALS	Textiles -Fabrics	Breaking load and elongation	IS 1969 Part 1 / ISO 13934-1
785	MECHANICAL- TEXTILE MATERIALS	Textiles -Fabrics	Mass	IS 1964
786	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Half Cell Potential test	BS EN 14630





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		Site Testing	Trail	
1	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Ti, Cr, Mn, Fe, Cu, Zn	ASTM E1476
2	CHEMICAL- METALS & ALLOYS	Cobalt & its alloys	Co, Cr, Ni, Mn, W, Fe	ASTM E1476
3	CHEMICAL- METALS & ALLOYS	Iron & its allos	Mn, Cr, Ni, Mo, Cu, Ti, Nb, Pb, Sn, Sb, V, Fe, W, Co	ASTM E1476
4	CHEMICAL- METALS & ALLOYS	Nickel & its alloys	Cu, Sn, Pb, Ag, Zn, Ni, Mn, Fe	ASTM E1476
5	CHEMICAL- METALS & ALLOYS	Titanium & titanium alloys	Ti, Mn, Fe, V, Mo	ASTM E1476
6	CHEMICAL- METALS & ALLOYS	Zinc & Zinc alloys	Fe, Cu, Zn	ASTM E1476
7	MECHANICAL- BUILDINGS MATERIALS	Adhesives	Tensile adhesion strengths	IS 15477
8	MECHANICAL- BUILDINGS MATERIALS	Anchor Bars and Rock Bolts / Rebar Grouting	Pull Out Test	IS 11309
9	MECHANICAL- BUILDINGS MATERIALS	Structural bearings	Shore Hardness	BS EN 1337-3
10	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Adhesion Test (Cross Cut Test/ Tape Test / Cross Hatch Test)	ISO 2409
11	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Gloss Value	ASTM D523





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12	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coated / Painted / Plated Products	Gloss Value	IS 101 Part 4 Sec. 4
13	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Hot-Dip Galvanizing of Iron and Steel	Adhesion Test	IS 2629
14	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Painted or Coated Specimens	Adhesion Test (Cross Cut Test/ Tape Test / Cross Hatch Test)	ASTM D3359
15	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Painted or Coated Specimens	Adhesion Test (Cross Cut Test/ Tape Test / Cross Hatch Test)	IS 14246
16	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Painted Products / Panels / Raw Materials	Coating Thickness by Elcometer	ASTM B499
17	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Painted Products / Panels / Raw Materials	Coating Thickness by Elcometer	IS 101 Part 3, Sec. 2
18	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Painted Products / Panels / Raw Materials	Coating Thickness by Elcometer	IS 3203
19	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Painted Products / Panels / Raw Materials	Coating Thickness by Elcometer	ISO 2178
20	MECHANICAL- SOIL AND ROCK	Soil & Rock Field Test	California Bearing Ratio (Field CBR)	IS 2720 Part 31





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21	MECHANICAL- SOIL AND ROCK	Soil & Rock Field Test	Dynamic Cone Penetrometer test	IRC SP 72
22	MECHANICAL- SOIL AND ROCK	Soil & Rock Field Test	Electrical Resistivity by Wenner's Four Electrode method (ERT)	IS 3043
23	MECHANICAL- SOIL AND ROCK	Soil & Rock Field Test	Modulus of Subgrade Reaction, K Value	IS 9214
24	MECHANICAL- SOIL AND ROCK	Soil & Rock Field Test	Pile Lateral load test	IS 2911 Part 4
25	MECHANICAL- SOIL AND ROCK	Soil & Rock Field Test	Pile Pull-out test	IS 2911 Part 4
26	MECHANICAL- SOIL AND ROCK	Soil & Rock Field Test	Pile Vertical load test (Compression)	IS 2911 Part 4
27	MECHANICAL- SOIL AND ROCK	Soil & Rock Field Test	Plate Load Test	IS 1888
28	MECHANICAL- SOIL AND ROCK	Soil / Rock Field Test	Standard Penetration test	IS 2131
29	MECHANICAL- SOIL AND ROCK	Soil Field Test	Field Density by Core cutter method	IS 2720 Part 29
30	MECHANICAL- SOIL AND ROCK	Soil Field Test	Field Density by Sand Replacement	IS 2720 Part 28
31	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	RCC Structure	Determination of Crack Depth	IS 516 Part 5 Sec1
32	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Carbonation Test	IS 516 Part 5 Sec 3





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33	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Half Cell Potential test	IS 516 Part 5 Sec 2
34	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures	Rebound Hammer	IS 516, Part 5, Sec 4
35	NON-DESTRUCTIVE- BUILDING MATERIALS - REINFORCED CONCRETE STRUCTURES	Reinforced Concrete Structures / Granite (Structural & Polished) / Marble / Kota Stone / )	Ultrasonic Pulse Velocity	IS 516 Part 5 Sec 1