



Material Testing Laboratory

NSIC – Technical Services Center at Rajkot, Gujarat offering the following testing
 Facilities to Industries through Material Testing Laboratory

A. Building Materials Testing (Physical)

Sr No	Product Details	Test Details	Applicable IS	Approved By
1	High Strength deformed steel Bars & Wire for Concrete re-enforcement	Ultimate Tensile Strength	IS 1786:2008 IS 1599: 2019	Accreditation By NABL (ISO / IEC 17025 : 2017)
		Yield Strength		
		Elongation		
		Bend & Re-bend Test		
2	HR Coil/Pipe Product/Welded plate	Ultimate Tensile Strength	IS 10748:2014 IS 1599:2019 IS 432:2020	
		Yield Strength		
		Elongation		
		Face & Root Bend		
3	MS Angle/ Channel	Ultimate Tensile Strength	IS 2062:2016 IS 1599:2019	
		Yield Strength		
		Elongation		
		Face & Root Bend		
4	Sand	Sieve analysis	IS 386:2016 IS 2386:2021	
		Silt content		
		Fineness modulus		
		Water absorption		
		Specific gravity		
5	Aggregate	Sieve analysis	IS 386:2016 IS 2386:2021	
		Water absorption		
		Impact value		
		Specific gravity		
6	Cement	Specific surface area	IS 269:2020 IS 4031:2019	
		Soundness		
		Setting time (initial/final)		
		Compressive strength		
7	CC Cube	Compressive Strength (7 days & 28 days)	IS 456:2021 IS 516:2018	
8	Brick	Dimensions	IS 13757:2016 IS 1077:2016	
		Compressive strength		
		Water absorption		
9	Bela Stone	Compressive strength	IS 1121: 2017 IS 1124:2017 IS 1597:2016	
		Water absorption		
10	Tiles	Breaking load	IS 13630:2019 IS 15622:2017	
		Modulus of Rupture		
		Water absorption		
11	CM Cube	Compressive Strength	IS 2250:2020	
12	AAC Block	Compressive Strength	IS 2185:2020	
		Dry Density		
13	CC Block	Compressive Strength	IS 2185:2020	
		Water absorption		
14	Paver Block	Compressive Strength	IS 15658:2021	
		Water absorption		

B. Building Materials Testing (Chemical)

Sr No	Product Details	Test Details	Applicable IS	Approved By
1	High Strength deformed steel Bars & Wire for Concrete re-enforcement	Carbon C, content	IS 1786:2008 IS 228:2019	-
		Silicon Si, content		
		Mangnese Mn, content		
		Sulphur S, content		
		Phosphorus P, content		
		Cromium Cr, content		
		Copper Cu, content		
2	Pipe Product	Carbon C, content	IS 3589:2017 IS 228:2019	-
		Silicon Si, content		
		Mangnese Mn, content		
		Sulphur S, content		
		Phosphorus P, content		
3	HR Coil	Carbon C, content	IS 10748:2004 IS 228:2019	-
		Silicon Si, content		
		Mangnese Mn, content		
		Sulphur S, content		
		Phosphorus P, content		
4	Hard Drawn Steel & Mild Steel	Carbon C, content	IS 432:2020 IS 228:2019	-
		Silicon Si, content		
		Mangnese Mn, content		
		Sulphur S, content		
		Phosphorus P, content		
5	MS Pipe	Carbon C, content	IS 2062:2016 IS 228:2019	-
		Silicon Si, content		
		Mangnese Mn, content		
		Sulphur S, content		
		Phosphorus P, content		
6	Construction Water	Neutralization with acid	IS 456:2021 IS 3025:2019	-
		Neutralization with alkali		
		Organic matter		
		Inorganic matter		
		ph value		
		Suphate content		
		Chloride content		
Suspended matter				
7	Cement	Ratio of % of lime to % of silica, alumina and iron oxide	IS 4032:2019	-
		Ratio of % of alumina to iron oxide		
		% loss of ignition		
		% of Magnesium		
		% of Insoluble matter		