

NSIC – TECHNICAL SERVICES CENTRE NATIONAL SMALL INDUSTRIES CORPORATION LIMITED

(A Government of India Enterprise)
rea, 80 Feet Road, Near Amul Chowk, Raikot – 36

Aji Industrial Area, 80 Feet Road, Near Amul Chowk, Rajkot – 360003 Ph. 0281-2387398/396/729, Email:ntscraj@nsic.co.in, ntscraj.cfs@nsic.co.in

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 Chromath dof-	Ultimate Tensile Strength		
	High Strength deformed	Yield Strength	IS 1786:2008	
	steel Bars & Wire for	Elongation	IS 1599: 2019	
	Concrete re-enforcement	Bend & Re-bend Test		
	HR Coil/Pipe Product/Welded plate	Ultimate Tensile Strength	IC 40740-2044	Accreditation
2		Yield Strength	IS 10748:2014	By NABL
		Elongation	IS 1599:2019	(ISO / IEC
		Face & Root Bend	IS 432:2020	17025 : 2017)
	MS Angle/ Channel	Ultimate Tensile Strength		
3		Yield Strength	IS 2062:2016	
		Elongation	IS 1599:2019	
		Face & Root Bend		
	Sand	Sieve analysis		
		Silt content	IC 20C-201C	
4		Fineness modulus	IS 386:2016 IS 2386:2021	-
		Water absorption		
		Specific gravity		
	Aggregate	Sieve analysis		
5		Water absorption	IS 386:2016	
)		Impact value	IS 2386:2021	-
		Specific gravity		
	Cement	Specific surface area		
6		Soundness	IS 269:2020	
"		Setting time (initial/final)	IS 4031:2019	_
		Compressive strength		
7	CC Cube	Compressive Strength (7 days & 28 days)	IS 456:2021	-
	Brick	Dimensions	IS 516:2018 IS 13757:2016 IS 1077:2016	
8		Compressive strength		_
		Water absorption		
9	Bela Stone	Compressive strength	IS 1121: 2017 IS 1124:2017 IS 1597:2016	
"		Water absorption		_
		Breaking load	13 1397.2010	
10	Tiles	Modulus of Rupture	IS 13630:2019 IS 15622:2017	
10		Water absorption		_
11	CM Cube	Compressive Strength	IS 2250:2020	_
	AAC Block	Compressive Strength	IS 2250:2020	-
12		Dry Density		-
	CC Block	Compressive Strength	IS 2185:2020	
13		Water absorption		-
14	Paver Block	Compressive Strength	IS 15658:2021	
		Water absorption		-
		water absorption		1

B. Building Materials Testing (Chemical)

Sr No	Product Details	Test Details	Applicable IS	Approved By
1		Carbon C, content		-
		Silicon Si, content	IC 179C-2009	
	High Strength deformed	Mangenese Mn, content		
	steel Bars & Wire for	Sulphur S, content	IS 1786:2008	
	Concrete re-enforcement	Phosphorus P, content	IS 228:2019	
		Cromium Cr, content		
		Copper Cu, content		
2	Pipe Product	Carbon C, content	IS 3589:2017 IS 228:2019	-
		Silicon Si, content		
		Mangenese Mn, content		
		Sulphur S, content		
		Phosphorus P, content		
3	HR Coil	Carbon C, content		-
		Silicon Si, content	16 40740-2004	
		Mangenese Mn, content	IS 10748:2004	
		Sulphur S, content	IS 228:2019	
		Phosphorus P, content	7	
4	Hard Drawn Steel & Mild Steel	Carbon C, content		-
		Silicon Si, content	16 422,2020	
		Mangenese Mn, content	IS 432:2020 IS 228:2019	
		Sulphur S, content		
		Phosphorus P, content		
5	MS Pipe	Carbon C, content		-
		Silicon Si, content	15 2052 2045	
		Mangenese Mn, content	IS 2062:2016	
		Sulphur S, content	IS 228:2019	
		Phosphorus P, content		
6	Construction Water	Neutralization with acid		-
		Neutralization with alkali	7	
		Organic matter		
		Inorganic matter	IS 456:2021	
		ph value	IS 3025:2019	
		Suphate content		
		Chloride content		
		Suspended matter		
7	Cement	Ratio of % of lime to % of silica, alumina		-
		and iron oxide		
		Ratio of % of alumina to iron oxide	IS 4032:2019	
		% loss of ignition		
		% of Magnesium		
		% of Insoluble matter		