



NSIC – TECHNICAL SERVICES CENTRE
NATIONAL SMALL INDUSTRIES CORPORATION LIMITED

(A Government of India Enterprise)

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Material Testing Laboratory

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

a) Mechanical Properties of Materials				
Sr.No	Test Details	Product Details	Applicable IS	Approved By
1	Mass per meter	High Strength deformed steel Bars & Wire for Concrete re-enforcement :-	IS 1786 : 2008 IS 1608 : 2005 IS 1599 : 1985	NABL Accreditation in the Scope of "Metals and Alloys"
	Tensile test			
	Elongation %			
	Yield Stress			
	Bend Test			
	Hardness Test – Rockwell			
	Re – Bend test			
2	Air pressure	i)15 kg Square Tin for Ghee,Edible oils ii)18 Liter Square Tin	IS:916-1989 IS:2471-1963	NABL Accreditation in the Scope of "Metals and Alloys"
	Hydraulic Pressure			
	Handle pull test			
	Dimension – Linear			
3	Dimensional	Cylinder liner for Internal Combustion Engine	IS:6750-1985	NABL Accreditation in the Scope of "Metals and Alloys"
4	Tensile Test	Hot rolled medium and high structural steel	IS 2062:2011 IS 1608:2005 IS 1599:1985 IS 1757	
5	Mechanical	Stainless steel & strip	IS 6911:1992	

6	Tensile Test	Cold Rolled low Carbon steel sheet & Strip	IS 513:2008 IS 1608:2005 IS 1586:2000 IS 1599:1985 IS 10175:1993 Part-I	NABL Accreditation in the Scope of "Metals and Alloys"
	Elongation			
	Yield Stress			
	Hardness Test			
	Bend Test			
	Cupping Test			
7	Tensile Test	Carbon steel Billers, Blooms Slab & bars for Forging	IS 1608:2005 IS 6750:1985 IS 1599:1985 IS 1599:1985 IS 11371 & IS 12037	
	Dimensional			
	Elongation			
	Yield Stress			
	Bend Test			
	Macro Examination			
8	Mechanical Metallography	Carbon steel Forging	IS 2004:1999	
9	Tensile	Lead tin bronze ingot & castings	IS 318:198 IS 2654:1964	
	Yield Stress			
10	Mechanical Metallography	Mild steel tubes Tubeslar other	IS 1239 (Part 1 to 2)	
12	Mechanical	HOT DIP Zinc, On structural Steel & other Allied products	IS 4759:1996	
13	Mechanical Metallography	Grey Iron Casting	IS 210:2009	
14	Flattening Test	Steel pipes & tubes	IS 2328:2005	

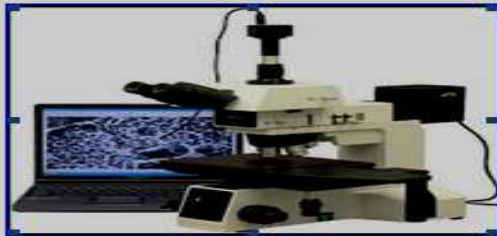
B. Building Materials:-

1	Moisture content	Timber	IS 287:1993/RA-2008, IS 1708 PT-1-1986 RA-2008	Approved under ISO 9001:2008
	Density			
2	Dimension	Bricks	IS 1077:2002 IS 12894:2002 IS 12894:2002 1992 (Reaffirmed-2002)	
	Length			
	Width			
	Height			
	Compressive Strength			
	Water absorption			
3	Compressive load	Man hole covers	IS 1726, 5455, 4111 (Part- 1)-1986 & 12592:2002	
4	Compressive Strength	Cement concrete cube	IS 516:1956 (Reaffirmed)	

C) Chemical Composition of Materials

1	Carbon	Steel & Steel Alloys (a) Low Carbon Steel (0.020 - 0.10%) (b) Mild Steel(0.10 - 0.30%) (c) Miedium Carbon Steel(0.35 - 0.60%) (d) High Carbon Steel(0.60 - 1.20%) (e) Alloys Steel (0.020 - 1.50%) (f) Stainless Steel (0.020 - 0.20%)	
	Silicon		
	Manganese		
	Sulphur		
	Phosphorus		
	Chromium		
	Nickel		
2	Total Carbon	Cast Iron & SG Iron	
	Phosphorus		
	Silicon		
	Sulphur		
	Manganese		
3	Tin	Copper & its Alloy	
	Lead		
	Iron		
	Zinc		
	Copper		
4	Sulphate	Construction Water & Drinking Water	
	Chloride		
	Organic Solid		
	Inorganic Solid		
	TDS		
	pH Value		

Approved under
ISO 9001:2008



Micro Harness Tester



UTM



Izod Imact test



Harness Tester