

DETAILS OF TEST FACILITIES AVAILABLE AT NTH(NWR), JAIPUR

CIVIL DIVISION

PLYWOOD

<i>Sl No</i>	<i>Description</i>	<i>Tests Available</i>	<i>Standard</i>
1	Plywood for General Purpose	Full Tests	IS:303-1989
2	Marine Plywood	Full Tests	IS:710-1976
3	Shuttering Plywood	Full Tests	IS:4990-1993
4	Fire Returdant Plywood	Full Tests	IS:5509-2000
5	Veneer Decorative Plywood	Full Tests	IS:1328-1996
6	Compregs Ply for General Purpose	Full Tests	IS:3513-1989 (Part 3)
7	Decorative Thermosetting Synthetic Resin Bonded Laminated Sheets	Full Tests	IS:2046-1995

BOARDS

<i>Sl No</i>	<i>Description</i>	<i>Tests Available</i>	<i>Standard</i>
1	Block Board	Full Tests	IS:1659-2004
2	Particle Board	Full Tests	IS:3027-1985
3	Veneer Particle Board	Full Tests	IS:3097-1980
4	Prelaminated Particle Board	Full Tests	IS:12823-1990
5	Medium Density Fibre Board	Full Tests	IS:12406-2003

DOORS

<i>Sl No</i>	<i>Description</i>	<i>Tests Available</i>	<i>Standard</i>
1	Flush Door	Full Tests	IS:2202-1999 (Part I) & IS:2202-1983(Part II) & All Tests as per IS:4020-1998
2	Moulde Raised High Density Fibre Panel Door	Full Tests	IS:3027-1985
3	PVC Door	Full Tests	IS:3097-1980
4	Panelled Door Shutter	Full Tests	IS:12823-1990

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CIVIL DIVISION

WOOD

<i>Sl No</i>	<i>Description</i>	<i>Tests Available</i>	<i>Standard</i>
1	Identification of Wood	Full Tests	IS:4970-1973
2	Moisture Content in Wood	Full Tests	IS:287-1993
3	Testing of Wood	Full Tests	IS:1708-1986

MISCELLANEOUS

<i>Sl No</i>	<i>Description</i>	<i>Tests Available</i>	<i>Standard</i>
1	Bricks	Full Tests	IS:1077-1992
2	Natural Building Stone	Full Tests	IS:1121-1974
3	Concrete Paver Blocks	Full Tests	IS:15658-2006
4	Chemical Resistant Mortar	Full Tests	IS:4832-1969
5	Asbestos Cement Corrugated Sheet	Full Tests	IS:459-1992
6	Gypsum Board	Full Tests	IS:2098-1996
7	Precast Concrete Pipes	Partial Tests	IS:458-2003
8	Fibre Hard Boards	Full Tests	IS:1658-1977
9	Epoxy Resins	Full Tests	IS:9162-1979
10	Acid Resistant Bricks	Full Tests	IS:4860-1968
11	Marble Stone	Full Tests	IS:1130-1969
12	Asbestos Cement Pipe & Pipe Fittings	Full Tests	IS:1626-1990
13	Toughened Safety Glass	Partial Tests	IS:2553-1990 (Part 3)
14	Synthetic Resin Bonded Laminates	Full Tests	IS:1998-1962
15	Asbestos Cement Flat Sheets	Full Tests	IS:2096-1992
16	Asbestos Cement Building Blocks	Full Tests	IS:2098-1997

TILES

<i>Sl No</i>	<i>Description</i>	<i>Tests Available</i>	<i>Standard</i>
1	Flooring Tiles (Terrazo)	Full Tests	IS:1237-1980
2	Chequered Tiles	Full Tests	IS:13801-1993
3	Pressed Ceramic Tiles	Full Tests	IS:622-2006
4	Acid Resistant Tiles	Full Tests	IS:4457-1982

Please see next page for more informations

CIVIL DIVISION

CEMENT

<i>Sl No</i>	<i>Description</i>	<i>Tests Available</i>	<i>Standard</i>
1	OPC 33 Grade	Full Tests	IS:269-1989
2	OPC 33/43S Grade	Full Tests	IS:8112-1989
3	OPC 53 Grade	Full Tests	IS:12269-1987
4	PPC (Portland Slag Cement)	Full Tests	IS:1489-1991
5	White Cement	Full Tests	IS:8042-1989
6	PSC	Full Tests	IS:455-1989
7	Rapid Hardening Cement	Full Tests	IS:8041-1990
8	Hydrophobic Portland Cement	Full Tests	IS:8043-1991
9	Magnesium Oxychloride Composition	Full Tests	IS:658-1982
10	Fly Ash	Full Tests	IS:3812-1989
11	Calcined Clay Pozzolona	Full Tests	IS:1344-1989
12	High Alumina Cement for Structural Use	Full Tests	IS:6452-1989
13	Super Sulphated Cement	Full Tests	IS:6909-1990

CONCRETE

<i>Sl No</i>	<i>Description</i>	<i>Tests Available</i>	<i>Standard</i>
1	Cement Concrete Cubes	Full Tests	IS:516-1959
2	Coarse & Fine Aggregates	Full Tests	IS:383-1970
3	Concrete Mixed Design	Full Tests	IS:456-200
4	Concrete Chemicals	Full Tests	
	a) Water Proofing Compound	Full Tests	IS:2645-2003
	b) Concrete Admixture	Full Tests	IS:9103-1999
	c) Curing Compounds	Full Tests	ASTM
5	Pull Out Test	Full Tests	IS:1770-1967

Please see next page for more informations

PLASTIC DIVISION

<i>Sl No</i>	<i>Description</i>	<i>Tests Available</i>	<i>Standard</i>
1	HDPE Pipes for Water Supply	Full Tests	IS:4984-1995
2	PVC Pipes for Potable Water Supply	Partial Tests	IS:4985-2000
3	Irrigation Equipments – Sprinkler Pipes	Full Tests	IS:14151-1999 (Part I)
4	Irrigation Equipments – QC Pipes	Full Tests	IS:14151-1999 (Part II)
5	Irrigation Equipments – Polyethylene Pipes for Irrigation Laterals		IS:12786-1989
6	High Density Polyethylene Pipes for Sewerage		IS:14333-1989
7	Containers for Packaging of Natural Mineral Water & Packaged Drinking Water		IS:15410-2003
8	Water Storage Tanks		IS:12701-1996
9	Polyethylene Bags for General Purpose		IS:9738-2003

RUBBER DIVISION /LABORATORY

<i>Sl No</i>	<i>Description</i>	<i>Tests Available</i>	<i>Standard</i>
1	Rubber Sealing Rings for Gas Mains, Water Mains & Sewers	Full Tests	IS:5382-1985
2	Methods of Tests for Vulcanised Rubber	Full Tests	IS:3400 (Part 1, 2, 4, 5, 6, 9, 10, & 14)

MECHANICAL DIVISION

<i>Sl No</i>	<i>Description</i>	<i>Tests Available</i>	<i>Standard</i>
1	Steel Tubes for Mechanical & General Engineering	Full Tests	IS:3601-1984
2	Adjustable Auxiliary Crutches	Full Tests	IS:5143-1988
3	Brass Tubes for General Purposes	Full Tests	IS:407-1981
4	Free Cutting Leaded Brass	Full Tests	IS:319-1989
5	Galvanized Steel Sheets	Full Tests	IS:277-2003

Please see next page for more informations

MECHANICAL DIVISION

<i>Sl No</i>	<i>Description</i>	<i>Tests Available</i>	<i>Standard</i>
6	Portable Fire Extinguisher, (Dry Powder Type)	Full Tests	IS:13849-1993
7	Grey Iron Casting	Full Tests	IS:210-1993
8	Steel Pipe for Water & Sewage	Full Tests	IS:3589-2001
9	Hollow Steel Sections for Structural Purposes	Full Tests	IS:4923-1997
10	Bright Steel Bars	Full Tests	IS:9550-2001
11	Centrifugally Cast Iron Pressure Pipes	Full Tests	IS:1536-2001
12	Reverse Bend Test	Full Tests	IS:1716-1985
13	Stainless Steel Bars & Flats	Full Tests	IS:6603-2001
14	Mild Steel & Medium Tensile Steel Bars & Hand Drawn Steel Wires	Full Tests	IS:432-1982 (Part II)
15	Brineel Hardness Test for Metallic Materials	Full Tests	IS:1500-1983
16	Vickers Hardness Test for Metallic Materials	Full Tests	IS:1501-2002
17	Rockwell Hardness Test for Metallic Materials	Full Tests	IS:1586-2000
18	Hot Rolled Steel Flat Products for Structural Forming & Flanging Purposes	Full Tests	IS:5986-2002
19	Steel Tubes for Structural Purposes	Full Tests	IS:1161-1998
20	Steel for General Structural Purposes	Full Tests	IS:2062-1999
21	Steel Tubes used for Water Wells	Full Tests	IS:4270-2001
22	Steel Tubes for Bicycle & Cycle Rickshaw	Full Tests	IS:2039-1991
23	Cold Rolled Low Carbon Steel Sheets & Strips	Full Tests	IS:513-1991
24	Fire Extinguisher (Carbon Di Oxide Type)	Full Tests	IS:2878-2004
25	Deep Well Hand Pumps, Components & Special Tools	Full Tests	IS:15500-2004 (Part 1 to 8)

Please see next page for more informations

CHEMICAL DIVISION

<i>Sl No</i>	<i>Description</i>	<i>Tests Available</i>	<i>Standard</i>
1	Packaged Drinking Water	Full Tests except Radioactive Parameters	IS:14543-2004
2	Cement Testing	Full Tests for All types of Cement	Relevant IS Specifications
3	Metal Testing	All Elements by Classical & Optical Emission Spectroscopy	Relevant IS Specifications
4	General Organic & Inorganic Chemicals	By Classical & Instrumental methods	Relevant IS Specifications
5	Sarson Seeds	Oil Content	IS:3579-1966
6	Edible Oils	Full Tests	IS:546-1975
7	Laundry Soap	Full Tests	IS:285-1992
8	Aluminum Ferric	Full Tests	IS:299-1989
9	Ores & Minerals	Full Tests	Relevant IS Specifications
10	Concrete & Mortar samples	Ratio of ingredients	ASTM – C-85-66
11	Pozzolanic Material	Full Tests	IS:3812-2003 (Part I)
12	Metal Coatings (Anodizing, Zn & Sn)	Chemical Tests	IS:2633-1986 IS:2629-1985
13	Preservative in Wood Samples	Chemical Tests	IS:12120-1987 IS:1659-2004
14	Polymer Identification	By F.T.I.R	
15	Residual Pesticides in Traces	By G.C.M.S	

ELECTRICAL DIVISION

<i>Sl No</i>	<i>Description</i>	<i>Tests Available</i>	<i>Standard</i>
1	Examination & Tests of PVC insulated Sheathed Cable	Full Tests	IS:694-1990 with amendments 1, 2 & 3
2	Examination, Measurement & tests of PVC insulated Sheathed Armoured Cable	Full Tests	IS:1554-1988 (Part I)
3	Examination, Measurement & tests of XLPE insulated & PVC Sheathed Armoured Cable	Full Tests	IS:7098-1988 (Part I)

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<i>Sl No</i>	<i>Description</i>	<i>Tests Available</i>	<i>Standard</i>
4	Examination, Measurement & complete Tests of Aluminum Conductor used for overhead	Full Tests	IS:398 (Part 2)
5	Determination of Electric Strength of Insulating Oils	Full Tests	IS:6792-1992
6	Examination & Resistance Test of Linned Coated Fuse Wires used in Rewirable Type of Fuses	Full Tests	IS:9926-1981

Major area to be explored shortly by NTH, Jaipur in its new building:

The Chemical discipline of NTH, Jaipur will undertake the testing and quality evaluation of Food.

New testing areas to be established in near future:

NTH, Jaipur has contemplated to open the testing facilities in the field of Transformer testing, Photo voltaic Solar Panel, Paint testing and Textile testing.

New Development to be given in running message:

1. Chemical Laboratory (Building Material, Metals, Water and Food), Electrical Laboratory, Mechanical Laboratory (Building Material, Metals, Plastic and Paper) are NABL accredited as per ISO/IEC: 17025:2005
2. National Test House, Jaipur is Government laboratory under Department of Consumer Affairs, Government of India approved by FSSAI (Regn.no.36/N/FSSAI/2016) for Chemical & Biological testing of food items as per the Gazette of India part II, section 3 (ii), 04 April 2016. Our Lab is NABL accredited as per ISO/IEC: 17025:2005.
3. National Test House, Jaipur is Government laboratory under Department of Consumer Affairs, Government of India having complete test facility for testing of Packaged Drinking Water

(IS:14543:2014) and Packaged Natural Water (IS:13428:2005),
Drinking water (IS:10500:2012), Atta (IS:7463:2004) and Maida
(IS:7464:1988)

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