

Sl. No.	Test Material	I.S. Specification No.	Minimum size of sample cm x cm	Test Charges per sample 2015 Rates.	Test Charges proposed from April 2017
A. Wood					
1	Classification of Timber	399	15 x 10	1220	1470
2	Identification of species		15 x 10	1220	1470
3	Moisture content determination.	1708 (part I)/287	15 x 10	500	600
4	Thickness			500	600
5	Spot test for Preservative treatment (Treatment given such as boron compounds/CCA/ACC/CCB should be specified)	401/5539/ 121-20/1920	15 x 10	650	780
6	Quantitative estimation of preservative chemicals a) CCA/CCB/ACC 2753(Pt. 1) b) Boron 2753(Pt. 1) (Treatment given should be specified)	401/2753	15 x 10 15 x 10	9720 3600	11670 4320
7	Non Coniferous timber in converted form for general purposes	5966		2880	3460
8	Preservative treated & seasoned sawn timber from rubberwood a) CCA/CCB/ACC 2753 (part I) b) Boron 2753 (part II)	14960		9720 3600	11670 4320
9	Specific Gravity / Density	1734/1708	1 plank	650	780
10	Face Veneer / Core Veneer (ID, MC & Thickness)	303		2230	2680
11	Seasoning	1141		1080	1300
12	Weight			650	780
13	Cracks			650	780
14	Warping			650	780
15	Knots			650	780
16	Strength of finger jointed teak section against clean teak wood section	1708		3600	4320
17	Block Shear Strength	1708		1440	1730

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B. PLYWOOD					
1	Commercial plywood	303	Full Size	4820	5790
2	Structural Plywood	10701	-do-	17280	20740
3	Shuttering Plywood	4990	-do-	18720* 9000**	22470* 10800**
4	Marine Plywood	710	-do-	17780* 8060**	21340* 9680**
5	Aircraft plywood				
	i) Medium strength	709	-do-	8060	9680
	ii) High strength	4859	-do-	10580	12700
6	Fire retardant plywood	5509	-do-	6260	7520
7	Decorative plywood	1328	-do-	3820	4590
8	Visual Defects in Veneer (face)	303	-do-	500	600

* Includes preservative estimation

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C. PARTICLE BOARD					
1	Wood particle board	3087	Full size board	9,860	11840
2	Veneered particle board	3097	-do-	6,260	7520
3	Rice husk particle board	3097	-do-	6,260	7520
4	Cement bonded particle board	14276	-do-	11,510	13820
5	Prelaminated particle board	12823	-do-	12,030	14440
6	Prelaminated Cement Bonded Particle Board	15786-2008	-do-	17280	20740
7	High density particle board	3478	-do-	7,630	9160
8	P.B. Composition		-do-	4,320	5190
9	Internal Bonding Test	2380	-do-	1440	1730
D. FIBRE BOARD					
1	Medium density fibre board (MDF)	12406	-do-	6,270	7530
2	Prelaminated MDF	14587	-do-	12,030	14440
E. HARDBOARD					
1	Fibre hardboard	1658	-do-	4,320	5190

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F. FLUSH H DOOR					
1	Flush door shutter	2202(Pt I)	Full size door 2 Nos.	15,770	18930
1a	Flush door shutter acceptance tests only as per	IS:2202, part I	1 Door	4,320	5190
2	Hollow Core Flush door	2191	-do-	15700	18840
3	Type tests for door Shutter	4020	Full size door 2 Nos.	15,700	18840
4	Type test for door shutter - Individual Tests				
i	Dimensional & Squareness test	4020	Full size door	650	780
ii	General flatness test	-do-	-do-	650	780
iii	Local Planeness test	-do-	-do-	650	780
iv	Impact indentation test	-do-	-do-	1,800	2160
v	Flexure test	-do-	-do-	1,800	2160
vi	Edge loading test	-do-	-do-	1,800	2160
vii	Shock resistance	-do-	-do-	2,880	3460
viii	Buckling test	-do-	-do-	1,800	2160
ix	Slamming test	-do-	-do-	1,080	1300
x	Misuse test	-do-	-do-	1,800	2160

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xi	Varying Humidity	-do-	-do-	5,040	6050
xii	End immersion test	-do-	-do-	1,080	1300
xiii	Knife test	-do-	-do-	650	780
xiv	Glue adhesion test	-do-	-do-	790	950
xv	Screw withdrawal test	-do-	-do-	1,440	1730
G. PANEL DOORS SHUTTER					
a)	As per IS:1003 (Part 1)	1003 (Part I)	Full size door	15,700	18840
b)	Moulded Panel Door				
	i) Panel Door	IS15380	-do-	15,770	18930
	ii) Skin	IS15380	-do-	9,860	11840
H. OTHER PANEL PRODUCTS					
1	Blockboard	1659	-do-	7,560	9080
2	Bamboo mat board (BMB)	13958	-do-	5,400	6480
3	Compreg (General Purpose)	3513 (Part I)	-do-	11,520	13830
4	BMCS	IS15476	Full Sheet	12,960	15560
5	BMVC	14588-1999	-do-	12,960	15560

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6	Coir Veneer Board	14842	Full size	4820	5790
7	Laminated Veneer Lumber	14616	-do-	17280	20740

I. Individual Tests

1	Density	1734/1708	30 x 30	650	780
2	Modulus of rupture / Bending Strength	-do-	100 x 30	1440	1730
3	Modulus of elasticity	-do-	100 x 30	1440	1730
4	Tensile strength	-do-	50 x 30	1800	2160
5	Compressive strength	-do-	50 x 30	1440	1730
6	Nail/ Screwholding power	-do-	50 x 30	1440	1730
7	Hardness	1734/1708	50 x 30	1440	1730
8	Thermal conductivity	3346	100 x 100	4320	5190
9	Termite Resistance	4833	30 x 30	4900	5880
10	Fungal resistance	4873	30 x 30	4900	5880
11	Borer resistance Natural infestation	-do-	30 x 30	4900	5880
12	Abrasion resistance test	-do-	30 x 30	2880	3460
13	Aging			500	600
14	Boiling			500	600
15	Water Resistance for Plywood	303/710/4990		1580	1900
16	Solid Contents			1440	1730
17	Flow Time			1440	1730
18	Gel Time			1440	1730

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19	Dimensional Tests for Windows		Full size window	650	780
20	Glue test for joints	4021 (part II)		790	950
21	Mycological Test	1734	150 x 100	1660	2000
22	Water absorption, swelling, etc (for particle board)	2380	-do-	1010	1220
23	Acoustic Properties				
i	Sound absorption co-efficient	10420	50 x 50	7200	8640
ii	Transmission loss co-efficient	-	50 x 50	7200	8640
24	Load bearing capacity test	15476		3600	4320
25	Impermeability test	15476		1200	1440
26	Falling weight test	15476		1200	1440
Note: Facilities for testing various other materials for conformity to relevant I.S.Specifications are also available. Details will be furnished on request. Testing of samples as per other specifications will also be carried out subject to availability of facilities.					
II CHEMICALS					
1	Resin and adhesives				
a	Identification of resin used in plywood using spot test			790	950
b	PVAc adhesive	4835	0.5 kg	4680	5620
c	Resin for plywood	848	1 kg	4320	5190
2	Extender for synthetic resins				
a	Fineness of granules	-do-	250g	1440	1730
b	Moisture content	-do-	250g	720	870
c	Ash content	-do-	250g	2160	2600
d	Fat content	-do-	250g	1440	1730
e	Nitrogen content	-do-	250g	2880	3460
f	Acidity	-do-	250g	720	870
3	Formaldehyde Emission				
a	Perforated Method	13745		3600	4320
b	Chamber Method	EN 717-I		14400	17280
4	Maida		1508	7800	9360

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5	Formaldehyde solution				
a	Acidity	3321	250 ml	720	870
b	Ash content	-do-	-do-	2,160	2600
c	Aldehyde content	-do-	-do-	1,440	1730
d	Iron content	-do-	-do-	1,440	1730
e	Methanol content	-do-	-do-	2,880	3460
6	Phenol				
a	Phenol content	538	-do-	3,100	3720
b	Crystallizing point	-do-	-do-	720	870
7	Urea				
a	Total Nitrogen content	5406	-do-	3,100	3720
b	Moisture	-do-	-do-	720	870
c	Residue on ignition	-do-	-do-	1,440	1730
d	pH of 10% solution	-do-	-do-	720	870
e	Melting point	-do-	-do-	720	870
8	Paraformaldehyde				
a	Aldehyde content	5271	250 g	1,440	1730
b	Ash content	-do-	-do-	2,160	2600
c	Acidity	-do-	-do-	720	870
9	Copper sulphate				
a	Copper content	261	250 g	1,440	1730
b	Insoluble matter of copper sulphate in water	-do-	-do-	1,440	1730
c	pH	-do-	-do-	720	870
d	Soluble iron & aluminium compounds	-do-	-do-	2,160	2600

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10	Ammonium chloride (Technical & pure)				
a	Moisture	1113	250 g	720	870
b	Ammonium chloride (% by weight dry basis)	-do-	-do-	2,880	3460
c	pH	-do-	-do-	720	870
d	Matter insoluble in water	-do-	-do-	1,440	1730
11	Percent of ammonia in liquor ammonia	799	-do-	2,160	2600
12	Base Paper/Resin impregnated Paper		30 x 30	720	870
13	Formaldehyde content in Plywood/Particle board (Sample should be sealed in polyethelene)	13745	30 x 30	3,600	4320
14	Total nitrogen content in urea/melamine		500 gm	3,100	3720

III.GENERAL INFORMATION

1. Request for testing should be addressed to the Director, giving full details.
2. Materials along with the indent may be handed over at the Institute on all working days Monday through Friday between 9 A.M. and 4 P.M. If they are sent by post, rail, road or air they should be on door delivery basis and freight paid. Otherwise all expenses incurred in connection with collection and handling of materials including demurrage, if any, have to be borne by the customers.
3. Materials, unless otherwise requested by the customer, will be tested as per the latest version of the Specification.
4. Charges in full for testing should be paid in advance by crossed Demand Draft drawn on any nationalised bank in Bangalore, in favour of the Director, IPIRTI.
5. For testing purposes, samples damaged or spoiled, primer/varnish coated or without sufficient details are not accepted. Such cases may result in prolonged correspondance and delay in taking up the testing work.
6. Tests will normally be carried out on first cum first serve basis and would take approximately 4-8 weeks for completion and issue of test reports depending on the materials.
7. Test reports will be sent by Registered Post, only after receipt of test charges.
8. Facilities are also available at kolkata field station Officer in charge may be contacted for availing the same.

For further details please contact:

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