

# EPCH Wood Test Lab at Handicrafts Productivity Centre, Jaipur gets accreditation from NABL

Facility open to member exporters at highly subsidised rates

EPCH has established a testing laboratory to facilitate its member exporters of Wooden Handicrafts and furniture items at Handicrafts Productivity Centre, Jaipur, with modern Technology machines offering various tests. This Wood Test Lab has successfully got the Accreditation from National Accreditation Board for Testing and Calibration Laboratories (NABL) for furniture testing along with Accreditation from International Safe Transit Association (ISTA) for Transit Test.



quality. The laboratory provides services of various components to enhance the quality of wooden handicrafts items through various tests such as evaluating structural strength and durability for wooden articles; moisture test of wood; drop test; transportation vibration test; chair seating impact and durability test; hardness of coating/film; tension, compression force, durability

The objective of the Testing Laboratory is to provide an integrated technological testing facility to improve product

tests, load capacity/impact/ durability tests and many more. The Centre is fully functional and operational to facilitate EPCH member exporters at highly subsidised rates.



## Type of Tests

### Performance Test House Hold Chairs

1. Seating - seat static load
2. Seating - impact durability
3. Seating - rear stability
4. Seating - front seating capacity
5. Seating - front stability
6. Seating - arm strength vertical
7. Seating - arm strength horizontal
8. Furniture - leg strength test
9. Back Pull Durability
10. Seating - rear legs strength test
11. Stain resistance
12. Swivel durability
13. Moisture content - solid wood only

### Performance Test - Tables and desk

1. Distributed load capacity
2. Concentrated load test
3. Stability test
4. Drop impact test

5. Stain resistance
6. Coating adhesion test
7. Loading Capacity (Shelf)
8. Racking Test
9. Drawer/Door Cycle Test
10. Drawer Operability
11. Drop Tests (Table End)
12. Leg Strength (Side/Front)
13. Resistance to Hot Water

### Performance Test - Cabinets/Bar Cabinets

1. Locking Device
2. Load capacity - top
3. Stability test
4. Coating adhesion test
5. Loading Capacity (Shelf)
6. Racking Test
7. Drawer/Door Cycle Test
8. Drawer Operability
9. Leg Strength (Side/Front)
10. Tilt Resistance
11. Surface scratching - wood panel
12. Concentrated load test

### **Performance Test - Sofa (3 Seater)**

1. Back Pull Durability

#### **Base Durability**

2. First Condition
3. Second Condition
4. Third Condition
5. Fourth Condition

#### **Impact Durability (Seat)**

6. First Condition
7. Second Condition
8. Third Condition
9. Fourth Condition
10. Fifth Condition
11. Sixth Condition
12. Seventh Condition
13. Eighth Condition
14. Ninth Condition
15. Front Seating
16. Rear Stability (A)
17. Rear Stability (B)
18. Arm Strength (Vertical)
19. Arm Strength (Horizontal)
20. Caster Performance (If Supplied)
21. Leg Strength (Side/Front)
22. Resistance to Hot Water (Wood only)
23. Moisture content (%) (Wood Frame)
24. Foam - Compression/% Recovery

### **ANSI/BIFMA X5.1-2011 General Purpose Office Chairs**

1. Backrest Strength Test - Static -Type I
2. Backrest Strength Test - Static -Type II, III
3. Base Test - Static
4. Drop Test - Dynamic
5. Stability Tests
6. Arm Strength Test - Vertical - Static
7. Arm Strength Test - Horizontal - Static
8. Leg Strength Test - Front and Side Application
9. Out Stop Tests for Chairs with Manually Adjustable Seat Depth
10. Tablet Arm Static Load Test

### **ANSI/BIFMA X5.4-2012 Lounge and Public Seating**

1. Backrest Strength Test - horizontal - Static
2. Backrest Strength Test - Vertical - Static
3. Arm Strength Test - Vertical - Static
4. Arm Durability Test - Horizontal - Static
5. Arm Durability Test for Multiple Seating Units - Vertical -Static
6. Drop Test - Dynamic

7. Leg Strength Test - Front and Side Application
8. Unit Drop Test - Dynamic
9. Stability Tests
10. Tablet Arm Static Load Test - Static

### **ANSI/BIFMA X5.5-2008 Desk/Table Products**

#### **Stability Tests**

1. Stability with Extendible Elements Open Test
2. Stability Under Vertical Load Test
3. Horizontal Stability Test for Desks/Tables with Casters

#### **Unit Strength Test**

1. Concentrated Functional Load Test
2. Distributed Functional Load Test
3. Leg Strength Test
4. Interlock Strength Test

#### **Lock Tests**

1. Force Test for Extendible Elements Locks
2. Force Test for Door Locks
3. Keyboard Support and Input Device Support Adjustment

### **EN 581-2:2009 Outdoor Furniture - Seating and Tables for Camping, Domestic and Contract Use - Part 2: Mechanical Safety Requirements and Test Methods for Seating**

1. Seat and back static load Test  
Seat static load test  
Back static load test
2. Seat front edge static load test
3. Seat and back fatigue test for seating
4. Fatigue test on back rest mechanism
5. Arm downwards static load test
6. Leg forward static load test
7. Leg sideways static load test
8. Seat impact test
9. Foot rail static test for high seating

### **EN 581-3:2007 Outdoor Furniture - Seating and Tables For Camping, Domestic and Contract Use - Part 3: Mechanical Safety Requirements and Test Methods for Tables**

1. Vertical static load on the table top (Domestic)
2. Vertical static load on the table top (Domestic)
3. Stability under vertical load (Domestic)

### **EN 1022:2005 Domestic Furniture - Seating - Determination of Stability**

1. Forwards overbalancing, all seating
2. Forwards overturning for seating with footrest
3. Sideways overbalancing, all seating without arms
4. Sideways overbalancing, all seating with arms
5. Rearwards overbalancing, all seating with backs
6. Tilting chairs
7. Rocking Chairs
8. Reclining chairs with footrest

### **EN 12520 Furniture - Strength, durability and safety requirements for domestic seating**

1. Seat static load
2. back static load test
3. Seat front edge static load test
4. Foot rest static load test"
5. Arm rest sideways static load test
6. Arm rest downwards static load test
7. Combined seat and back durability test
8. Seat front edge durability tested
9. Arm rest durability test
10. Leg forward static load test
11. Leg sideways static load test
12. Seat impact test
13. Backward Fall Test
14. Back Impact Test

### **EN 12521 Furniture - Strength, durability and safety - Requirements for domestic tables**

1. Horizontal static load
2. Vertical static load
3. Horizontal fatigue
4. Vertical fatigue for cantilever or pedestal tables
5. Vertical impact for tables
6. without glass in their construction
7. Vertical impact for tables with glass in their constructio
8. Stability under vertical load
9. Stability for tables with extension elements