

## **Eco mark Criteria of Wood Substitutes**

### **General Requirements:**

Products manufactured shall meet relevant Indian Standards of BIS (Bureau of Indian Standards) pertaining to safety, quality and performance.

The product manufacturer must produce the consent clearance, as per the provisions of Water (Prevention and Control of Pollution) Act 1974, Water (Prevention and Control of Pollution) Cess Act 1977 and Air (Pollution and Control of Pollution) Act 1981, along with the authorisation if required under Environment (Protection) Act 1986 and rules made thereunder to Bureau of Indian Standards while applying for the ECOMARK appropriate with enforced rules and regulations of the Forest Department.

The product or product packaging may display in brief the criteria based on which the product has been labelled Environment Friendly.

The material used for product packaging shall be recyclable, reusable or biodegradable.

### **Product Specific Requirements:**

#### **Substitutes for fuel-wood:**

Briquettes shall be made from agricultural and wood residues (like saw dust) and domestic wastes (like garbage) without synthetic binders, for industrial and domestic use. Such briquettes shall not be manufactured from any wastes material, which contain any hazardous constituents as specified under Hazardous Wastes (Management and Handling) Rules, 1989.

#### **Substitutes for Wood Building Material**

Building boards generally used as partitioning, paneling, cladding and false ceiling shall be made from agricultural or industrial wastes (such as Phospho-gypsum, red mud, bagasse, cotton stalk, rice-husk, coir fibre, sisal fibre or wood residues etc., or wood from sources other than natural forests or environment friendly plastics as notified separately. Door and window frames and shutters used in buildings shall be made from agricultural or industrial wastes or wood residues or wood from sources, other than natural forests or ferro-cement or building boards specified in the standard or environment friendly plastic as notified separately or frames made from enforced cement concrete.

#### **Substitutes for Wood in Furniture:**

The furniture (table, chairs and Stool etc.) shall be made from agricultural or industrial wastes or wood residues or wood from sources other than natural forests or building boards specified in the standard or environment friendly plastics as notified separately.

The Ecomark criteria is incorporated in the following BIS standards of wood substitutes:

<b>Indians Standards</b>	<b>Year of incorporation</b>	<b>Descriptions</b>
IS 303:1989, Reaffirmed year 2013	2000	Plywood for general purposes.
IS 1003(Pt.1): 2003 Reaffirmed year 2008	2003	Timber panelled and glazed shutters. Part 1:Door
IS 1003(Pt.2):1994 Reaffirmed year 2006	2007	Timber panelled and glazed shutters. Part 2: Window and ventilator shutters
IS 1658:2006 Reaffirmed year 2011	1996	Fibre hardboards
IS 1659:2004 Reaffirmed year 2009	1991	Block boards
IS 1829(Pt.1): 1978 Reaffirmed year 2010	1997	Library furniture and fittings. Part 1 Timber
IS 2095(Pt.1):2011	1991	Gypsum plaster boards
IS 2095(Pt.3): 1996 Reaffirmed year 2009	2000	Gypsum plasterboards: Part 3 Reinforced Gypsum plasterboards.
IS 2191 (Pt.1): 1983 Reaffirmed year 2006	2000	Wooden flush door shutters (cellular and hollow core type). Part 1: Plywood face panels
IS 2191 (Pt.2): 1983 Reaffirmed year 2006	2000	Wooden flush door shutters (cellular and hollow core type). Part 2: Particle board and hardboard face panels
IS 2202(Pt.1): 1991 Reaffirmed year 2011	2009	Wooden flush door shutters (solid core type): Part 1 Plywood face panels
IS 2202(Pt.2): 1991 Reaffirmed year 2006	2009	Wooden flush door shutters (solid core type): Part 2 Particle board face panels and hardboard face panels
IS 2849:1983 Reaffirmed year 2007	2000	Specification for non-lead bearing gypsum partition
IS 3087:2005 Reaffirmed year 2010	1996	Practice boards of wood and other Lingnocellulosic materials (medium Density) for general purposes
IS 3129:1985 Reaffirmed year 2010	2000	Low density particle boards
IS 3308:1981 Reaffirmed year 2013	2000	Specification for wood wool building slabs
IS 4021:1995 Reaffirmed year 2011	2000	Timber door, window and ventilator frames
IS 4116:1988 Reaffirmed year 2007	1997	Wooden shelving cabinets (adjustable type)

IS 4126:1986 Reaffirmed year 2010	1997	Wooden wardrobes (adjustable type and non adjustable type)
IS 4414:1990 Reaffirmed year 2007	1997	Specification for wooden table tops
IS 4990:2011	1996	Plywood for concrete shuttering work
IS 5509:2000 Reaffirmed year 2010	1996	Fire retardant plywood
IS 5823:1986 Reaffirmed year 2010	1997	Dining tables
IS 5923:1986 Reaffirmed year 2010	1997	Wooden clothes lockers
IS 5974:1986 Reaffirmed year 2010	1997	Specification for divans and easy chairs
IS 6188:1988 Reaffirmed year 2007	1997	Specification for wooden bedside table
IS 6198:1992 Reaffirmed year 2006	2000	Ledged, braced and battened timber door shutters
IS 6523:1983 Reaffirmed year 2013	2005	Specification for precast reinforced concrete door
IS 6632:1988 Reaffirmed year 2007	1997	Specification for wooden folding chairs
IS 7070:1988 Reaffirmed year 2007	1997	Wooden shelving racks (adjustable type and non adjustable)
IS 7259(Pt.1): 1988 Reaffirmed year 2010	1997	Specification for wooden beds: Part 1 For use with mattresses
IS 11525: 1986 Reaffirmed year 2010	1997	Wooden chairs for office purposes
IS 11679:1986 Reaffirmed year 2010	1997	Wooden tables for office purposes
IS 12406:2003 Reaffirmed year 2013	1996	Medium Density Fibreboard for General Purposes
IS 12680:1989 Reaffirmed year 2007	1997	Wooden sofa-cum-bed
IS: 12823:2015	2000	Wood products - pre laminated Particle boards
IS 14587:1998 Reaffirmed year 2013	2005	Testing and Inspection for Prelaminated Medium Fibre Density Boards

The incorporation of Eco-mark requirements, in the following BIS standard of wood substitutes, is under process.

<b>Indians Standards</b>	<b>Year of incorporation</b>	<b>Descriptions</b>
IS 4962:1968	Inactive	Specification for wooden side sliding doors
IS 12896:1990 Reaffirmed year 2010	-	Classification of Indian timbers for doors and window shutters and frames

**Source:** [http://www.cpcb.nic.in/EnvironmetalPlanning/Eco-label/Wood\\_Substitutes.pdf](http://www.cpcb.nic.in/EnvironmetalPlanning/Eco-label/Wood_Substitutes.pdf)