



# Central Building Research Institute Roorkee

## Coir-CNSL Board Technology



- Application/Uses:** Paneling, surfacing, partitioning, doors and window shutters, false ceiling, furniture, cabinets etc.
- Salient Technical Features:** Single layer flat pressed MDF board has low water absorption, negligible thickness swelling due to water absorption, workable with normal wood working tools, paintable, prelaminable, nailing & screwing possible.
- Environmental Aspects:** Eco-friendly, 100% wood replacement in its field of applications.
- Level/Scale of Development:** Laboratory scale, (Pilot plant scale).
- Status of Commercialisation:** Laboratory scale technology ready for transfer.
- Major Components/ Raw Materials:** Coir fiber and cashew nut shell liquid (resinol).
- Major Plant Equipment:** Needled felting machine, spraying system, press and curing oven.
- Techno-Economics:** Prefeasibility study revealed its commercial viability at a net return @ 42.4 on total estimated plant cost of Rs.483 lakh (economic viable capacity 6000 tons/year). Estimated Ex. factory price Rs. 1.40 per sq.ft. per mm thickness.
- Technology Package:** Complete process package.

**For further details please contact :**

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