

Some Transferable Technologies Developed at Forest Products Branch, BFRI

Technology-1 : Increase Service Life of Rural Housing Materials (wood, bamboo, sun grass, straw, etc.)



A Treated Bamboo House in 2010 (made in 1981)

Description

- Cheap, easy preservative treatment developed for rural housing materials (bamboo, sun grass, straw, etc.).
- Service life of treated materials increased by 5-10 times.

Status

- Farmers in Hathazari, Ctg; Lama, Bandarban; Sonagazi, Feni; Mohonpur, Rajshahi; and betel leaf farmers of "Anwara & Banshkhali, Chittagong; " Batajor Bandar, Barisal at private level.
- TMSS, St. Martin's project.

Impact

- Perpetual maintenance expenditure of rural housing eliminated.
- Help conserve natural resources.

Technology-2 : Utilization of Rubber Wood.



Description

- Timber suitable for making furniture.
- Spraying with preservatives immediate after felling is needed

Status

- BFIDC and other private entrepreneurs using the technology

Impact

- Industrial use of rubber wood ensured

Technology-3 : Process for Producing High Quality Pulp from Low-Grade Jute.



Description

- Suitable process for making high grade pulp from low quality jute developed
- Gives higher yield and excellent quality pulp

Status

- Requires establishment of a new jute based pulp mill

Impact

- Ensure utilization of inferior quality jute
- Minimize import of pulp
- Help country to enter into export market

Technology-4 : Seasoning of Timber using Solar Energy.



Description

- Simple, cheap and effective solar kiln developed for seasoning timbers.
- Locally available materials used for construction.

- Timbers of different species and sizes seasoned throughout the year.

Status

- BFIDC and Private entrepreneurs are using.

Impact

- Cost effective and environment friendly.

Technology-5 : Technique for Making Cheaper Hollow-Core Panel.



Description

- Techniques for making hollow core panel developed.
- Inferior wood and leftover can be used.
- Provides 30-50% wood savings.

Status

- BFIDC and furniture making industries using the techniques.

Impact

- Save timbers

Technology-6 : Novelty Articles from Laminated Wood.



Description

- Novelty items (flower vase, table lamp, ash tray, bowl, stick, chess board, etc.) made with wood off-cuts

Status

- BFIDC and Cottage industries using.

Impact

- Utilization of wood wastes.
- Export potential.
- Socioeconomic development of poor people.

Technology-7 : Alternative use of Bamboos for making Furniture, Tiles, Panel Products and Particleboard.





Description

- Panel products, furniture, tiles and particleboards made from bamboo.

Status

- Potential use through alternative fancy/lucrative products.

Impact

- Reduce pressure from valuable scarce wood.
- Income generation through industrialization.
- Poverty alleviation.
- Foreign exchange earning by export.

Technology-8 : Development of Alternative Raw Materials of Hardboard from Keora Trees.

Description

- Found suitable as substitute for sundri in making hardboard

Status

- May have potential use in hardboard mills

Impact

- Industrial use of keora can be ensured

Technology-9 : Alternative Local Timbers (kanak, batna, silbhadi & jialbhadi) for Railway Sleepers.

Description

- Garjan conventionally used as railway sleeper
- Kanak, batna, sil bhadi, jial bhadi proved suitable for railway sleeper

Status

- Reduce import of railway sleeper

Impact

- Industrial use of keora can be ensured