

Case study 2

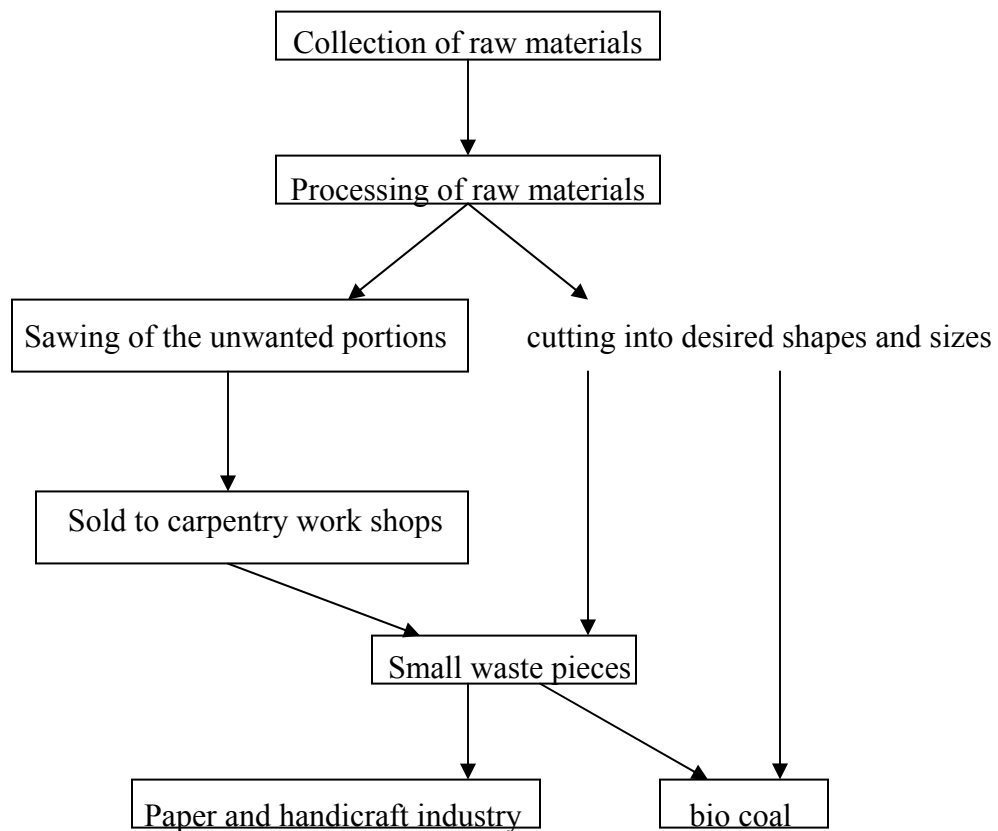
Wood industries-Auroville

Aurorachana and combined general study of small scale saw mills and carpentry units.
(total area 750 mt. sq.)

Office area (100 mt. sq.)

Reception, lobby, entrance foyer, etc. (50 mt. sq.)

Diagrammatic study of different areas with their functions.



Areas and their functions

1. Collection of raw materials-this is mainly done in open and semi open sheds. (200 mt. sq.)
 - Wood is brought from broken down old building sites for reusing.
 - In form of antique wood (teak) but non useable furniture and articles for recycling.
 - A common and fast growing tree planted in abundance in Auroville –the work tree which gives good carpentry wood.
 - Casuarina trees grown locally.

2. Processing of raw materials (200 mt. sq.)
 - The wood obtained from different source is sawed in a saw mill.
 - If it is in the form of furniture it is dismantled.
 - The bark of the wood logs is removed.
 - The logs are cut into various different sizes as per the requirement.
 - The wooden battens are then made smooth by sawing the surfaces.

3. Transporting and storing of wood. (200 mt. sq.)
 - This wood is transported to the carpentry workshops manually or by the use of hand carts.
 - Here the wood is finished more and made into the desired furniture.
 - Wood is stored in open but rain protected sheds in form of stacks.

Waste obtained

- The waste obtained in form of shreds and small unusable areas is used for producing bio coal.
- The small pieces not useful for furniture are used in the handicraft industry.
- Some quality of waste is also used in the paper industry.

Uses of wood

- Wood is supplied to carpentry units for making furniture and other articles.(aurorachana)
- Wood is used in making of paper lampshades. (aladin)
- Wood waste is used in paper producing unit.(A.V. press)
- Used in construction works.
- Supplied to other units making small wooden products or using wood for their products. (Shrandhanjali)
- Used in cloth painting units for making screens, hammocks, etc.(lotus)
- Used in handloom units (imagination)
- Used in the handicraft industry.

Advantages of having a wood industry.

- It makes Auroville self sufficient in terms of using wood and its products.
- It becomes a raw material to many industries using wood for their products.
- The wood obtained is generally from local sources and used in recyclable and reusable forms.
- It can satisfy the need in the building and construction of small buildings.
- It is a nonpolluting and biodegradable product.
- It produces very little and useful waste.
- It uses very basic machinery for its processing.