

RENDERING OF BEES WAX-
Production of value added
Beeswax product

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BeesWax

- ***Beeswax** is a natural wax produced in the bee hive of honey bees of the genus *Apis*.*
- *It is mainly esters of fatty acids and various long-chain alcohols.*
- *Beeswax is the creamy coloured substance used by bees to build the comb that forms the structure of their nest. Very pure beeswax is white, but the presence of pollen and other substances cause it to become yellow.*

Production of Beeswax



The wax of the western hive bee (Apis mellifera) differs from the beeswax produced by the Asian species of honey bee (A. dorsata, A. florea, and A. cerana). Wax of the Asian species is called Ghedda wax and is less desirable than that of the western hive bee for international marketing purposes.

Pure beeswax is harder and has a higher melting point (64degree C) than most other waxes.

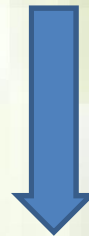
Processing Beeswax



Burr comb ,honey and bees from a cut out



Take cookie sheet inside & removed the dead bees then poured into measuring cups.



Put a knee –high over a glass jar & poured the honey throught it to filter out the wax



Honey from the burr comb



Wax left over from the burr comb



Wax in the cheesecloth



The wax ball in water



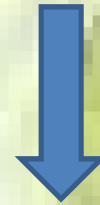
Wax melting & floating to the top of the pot.



Left of the wax ball



Removed from heat



Wax after cooling



Solar Extractor



Solar beeswax extractor positioned to receive maximum radiation from the sun and protection from prevailing winds. Placing the extractor on wheels allows it to be moved to face into the sun.

ADDED VALUE



In Cosmetics:

Around 40 percent of the world trade in beeswax is used for the cosmetics industry. The world price is usually around US\$4-10 per kilogram. At a local level, making skin ointment from beeswax can be one of the most profitable beekeeping activities.



In pharmaceutical Preparation:

Around 30 percent of world trade in beeswax is used by the pharmaceutical industry that, like the cosmetic industry, requires good quality wax.



In Candle Making:

Around 20 percent of the beeswax trade is used for candle making.

Beeswax candles are less common and more expensive than candles made from paraffin wax.

In the past church candles had to be made of 100 percent beeswax, and this is still followed in some societies



Other Uses

Around 20 percent of the world trade in beeswax is used for:



It is used for jam preparation



Natural beeswax foot creme

Body lotion & Oils



Creams





Textiles



As a polish for floors





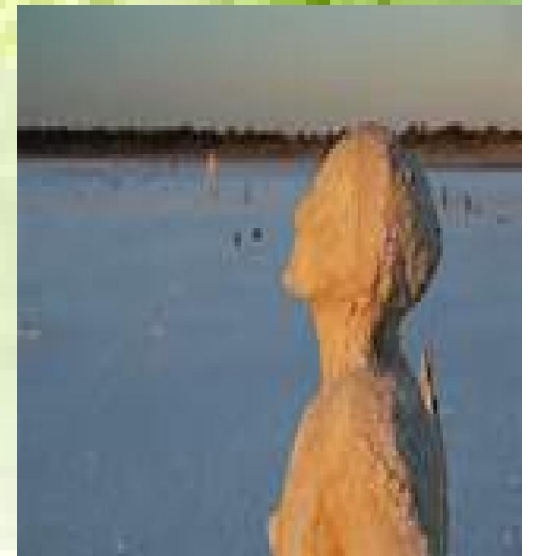
Necklace



To make Balms



To make sculptures





Storage

- *Beeswax should only be stored in its rendered, clean form. Before rendering, it will quickly be attacked by wax moths.*
- *Clean wax in large blocks is not attacked by wax moths.*
- *Storage should be in cool dry places and never in the same room with any kind of pesticide.*

Marketing Beeswax



In North West Zambia, beekeepers are harvesting honey and beeswax from bark hives, with both commodities serving as a cash crop for export to Europe. In this system, farmers harvest the honey and the wax at the same time.

When groups of beekeepers combine their beeswax harvests, they can accumulate enough quantity to sell. Beeswax for export should be clean and heated as little as possible.



Thank you.....

