Beekeeping is the maintenance of honey bee colonies, commonly in hives, by humans. Bees are accommodated in artificial lives where they live comfortably within easy reach of the bee keeper for examination and extraction of surplus lovely, after keeping of sufficient lovely in the combs for the bees. Honey is a part of bees, which gather sugar containing nectars from flowers. Honey should be processed as soon as possible after removal from the hive. Honey processing is a sticky operation, in which time and patience are required to achieve the best results. Careful protection against contamination by ants and flying insects is needed at all stages of processing. Bee honey is natural, unrefined food consumed as much in fresh or canned state. It is readily assimilated and is more acceptable to the stomach, particularly in the case of ailing persons, than cane sugar. It is an antiseptic and is applied to wounds and burns with beneficial results. Honey collection and its marketing in India are still not fully organised. The main uses of honey are in cooking, baking, as a spread on breads and as an addition to various beverages such as tea and as a sweetener in commercial beverages. Honey is the main ingredient in the alcoholic beverages mead, which is also known as honey wine or honey bear, honey is also used in medicines. A number of small scale industries depend upon bees and bee products. Honey and bees products finds use in several industries which are under pharmaceuticals, meat packing, bees wax in industries, bee venom, royal jelly, bee nurseries, bee equipments and hives etc. There is considerable demand for the honey and other products. Outside the thousands of homemade recipes in each cultural tradition, honey is largely used on a small scale as well as at an industrial level.

Some of the fundamentals of the book are history of beekeeping in India present, all India co ordinate research project on honey bee research and training, future plan for development, the pattern of beekeeping today, development of beekeeping equipments, beekeeping industry and honeybee species, bee hive products, medicinal properties of honey, bees and agriculture, pesticidal poisoning to honeybees, handling bees, queen rearing and artificial queen, beekeeping and ancillary industries, honey based industries, honey in pharmaceuticals, honey in meat packing, beeswax in industries, bee stings precautions and treatment.

The book contains the steps of bee keeping in proper manner and details of honey processing. This book is an invaluable resource for new entrepreneurs, technocrats and also for established enterprises.
Apiculture
Development of Beekeeping Equipments:
Role of RBRCs/FOS
Introduction of Exotic Bees
Entomology
Bee Pathology
Bee Botany and Melletopalyonology
Bee Pollination
Queen Rearing and Bee Breeding
Rock Bee
Bee Chemistry
Training
Bee Library

4. BEEKEEPING RESEARCH SET-UP,
ACHIEVEMENTS AND FUTURE STRATEGIES
RESEARCH ACHIEVEMENTS AND FUTURE
STRATEGIES
Beekeeping Industry and Honeybee Species
BEE FLORA
EQUIPMENT AND MANAGEMENT
GENETICS AND BREEDING
DISEASES & ENEMIES
POLLINATION OF CROPS
HONEYBEE PRODUCTS
PESTICIDAL POISONING

5. MAJOR CONSTRAINTS IN BEEKEEPING
BEEKEEPING WITH APIS CERENA INDICA AND
APIS MELLIFERA
THE MAJOR CONSTRAINTS FOR THE
DEVELOPMENT OF BEEKEEPING IN INDIA
ARE AS FOLLOWS
Using the Correct Species for Beekeeping
Availability of Genetically Superior Queens
for Increased Honey Production
Lack of Technical Knowledge for Efficient
Management of Colonies for High Honey Yields
Lack of Infrastructure at the Grass Roots and National Level for Beekeeping
Poor Quality Control for the Production of Honey
Emphasis on Production of Honey Instead of other Bee Products
Bees Wax
Pollen
Propolis
Bee Venom
Royal Jelly
Disease Prevention, Control and Analysis
Lack of Sufficient Financial Help from Government
and Lending Institutions for the Development of
Beekeeping
No Tax or Other Monetary Benefits for Beekeeping
No Control on the Use of Pesticides by Farmers
Leading to Death of Bee Colonies in Field Locations
Pricing Structures for Honey
Lack of Finances for Packers or Beekeepers to be
Able to Store Honey
Beekeeping Being not Recognized as a Priority Agricultural Activity and Getting Governmental Support
There is No Promotion of Mass Planting of Bee Flora
Apiculture not Being Recognized as a Specific Field
Lack of Consumer Awareness of Honey and its Products
Beekeeping not Being Considered as an Employment Generation Activity

CONCLUSION

6. BEES AND THEIR ECONOMIC IMPORTANCE

WILD BEES

SPECIES OF HONEYBEES

7. MORPHOLOGY, ANATOMY, COLONY ORGANIZATION AND LIFE CYCLE

MORPHOLOGY

ANATOMY

COLONY ORGANIZATION

DEVELOPMENT

POINTS OF CASTE DISTINCTION

8. BEEKEEPING EQUIPMENTS

LANGSTROTH TEN-FRAME HIVE

NEWTON HIVE

OTHER BEEKEEPING EQUIPMENTS

EQUIPMENTS FOR HANDLING BEES

9. SEASONAL ACTIVITIES AND SOCIAL BEHAVIOUR OF HONEY BEES

BEHAVIOUR OF HONEY BEES

SOCIAL BEHAVIOUR OF HONEYBEES

SEQUENCE OF ACTIVITIES IN THE LIFE OF BEES

DIVISION OF LABOUR

COMMUNICATION AND MEMORY OF HONEYBEES

Dance Language

CHEMICAL COMMUNICATION

PEROMONES

WORKER PRODUCED ODOURS

QUEEN - PRODUCED ODOURS

Inhibition of Queen Rearing and Swarming
Prevention of Worker Ovary Development
Attraction of Drones for Mating
Attraction of Swarms and their Stabilization
Stimulation of Nasonov Pheromone Release and Worker Foraging

QUEEN ATTRACTIVENESS AND RECOGNITION

Other Pheromones

CONTROL OF REPRODUCTION IN HONEYBEE COLONIES

Foraging Activities
Nectar
Pollen
Water
Propolis
Maintenance of Nest/Hive Temperature
FORAGING RANGE
WORKING HABITS OF FIELD BEES
SPEED OF FLIGHT
COLONY DEFENCE ACTIVITIES
10. FOOD OF THE HONEYBEES, BEE FLORA
AND HONEY FLOW PERIODS
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BEE FLORA
NATURAL AND ORNAMENTAL FLOWERS
PROPAGATION OF BEE PLANTS
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SWARMING
CATCHING THE SWARM
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MANAGEMENT DURING HONEY FLOW
HONEY EXTRACTION
SUMMER MANAGEMENT
MONSOON MANAGEMENT
POST-MONSOON MANAGEMENT
CONTROL OVER DESERTION OF BEE COLONIES
12. MIGRATORY BEEKEEPING
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PROTOZOAN DISEASE
Nosema Apis
FUNGAL DISEASES
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VISCOSITY
SPECIFIC GRAVITY AND REFRACTIVE INDEX
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HONEY, AN ENERGY FOOD
Nutritive Value of Honey
Honey - A Tonic
Consumption of Honey
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MEDICINAL PROPERTIES OF HONEY
Honey as Medicine
HONEY IN INFANT FEEDING
HONEY AND DIABETES
Diabetes
Composition of Honey
HONEY IN HOME PREPARATIONS
Honey Spread
Honey Water
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Honey in Cooking and Baking
Honey in the Kitchen Angel Biscuits
Honey Butter
Apple-Oats-Musli
Orange-Apple-Musli
Carrot Salad with Honey
Comb Lemon Squash
Honey Mango Squash
Honey Jam
Honey Candy
Honey and Egg
Honey Ice-cream
Honey Chocolate
Honey Chikki
Honey Jelly
Honey Soap
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GRANULATION
MOISTURE CONTENT AND FERMENTATION
Honey Processing
CONSTRUCTIONAL DETAILS OF THE HONEY PROCESSING UNIT
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COMPOSITION
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