

## CONTENTS

1. Abstract
2. Chapter 1. Introduction
  - 1.1 Objective of the Study
3. Chapter 2. Review of Literature
  - 2.1. Melissopalynological Researches in India
  - 2.2. Melissopalynological Researches in Abroad
  - 2.3. Melissopalynological Works for various purposes
  - 2.4. Counting Methods & Statistics in use
  - 2.5. DNA Information as an aid in Melissopalynology
  - 2.6. Proteins and other Chemical Analyses
  - 2.7. Authenticity of Honey Source
4. Chapter 3. Materials and Methods
  - 3.1 Materials
  - 3.2 Methods of Material Collection and Preservation
  - 3.3 Clearing of Pollen Samples for Microscopy
  - 3.4 Preparation of Glycerine Jelly
  - 3.5 Palynological Preparation of Honey Samples
  - 3.6 Slide Preparation
  - 3.7 Palynological Preparation of Corbicular Load
  - 3.8 Preparation of Pollens from Surface of Bee Body
  - 3.9 Preparation of Reference Slides

- 3.10 Observation Under Microscope and Study of Pollens
- 3.11 Terminologies for Describing Pollen Morphology
5. Chapter 4. Results
  - 4.1 Qualitative Analysis of Honey Samples, Pollen Pellets and Surface of Bee Body samples
  - 4.2 Quantitative Analysis of Pollens of Different Species in Honey Samples of *Apis mellifera* during different months of a year
  - 4.3 Quantitative Analysis of Pollens in Corbicular Loads of *Apis mellifera* During Different Months of a Year
  - 4.4 Quantitative Analysis of Pollens of Different Species on the Body Surface of *Apis mellifera* During Different Months of a Year
6. Chapter 5. Discussion Qualitative Analysis of Honey Samples, Pollen Pellets and Surface of Bee Body samples
7. Conclusion
8. Summery
9. Glossary
10. References
11. Annexure I - Paper in *Internatl. J. of Pure & Appl. Bio. Sc.*
12. Annexure II – Paper in *Revista de Biologia Tropical*