Hand Book on Neem & Allied Products

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Nature has blessed man with a number of wonders. Of all, plants are found to be its best boon. Among them, neem is distinguished by their astonishing versatility. Neem is such a fascinating tree that no other tree probably has provided wide range of benefits to mankind. Neem tree and its products have been reputed since long for some physiological activity and have been used quite extensively as a household remedy, since time immemorial, for the treatment of some of the common ailments. The Neem tree, which is also known as Margosa or Indian lilac is grown extensively in Asian and African countries. The neem is very useful tree due to its medicinal and insecticidal properties. Neem oil is the major product of neem seed industry. The chief limitation of the oil is its odour due to the presence of odouriferous substances and other non saponifiable components. Amongst the non edible oilseeds the potential availability of neem is by far the largest because of its very extensive growth throughout the country and fairly good yield of oils from the seeds. Neem seed cake is the major by product of neem seed oil. Various parts of the neem tree have been used as traditional Ayurvedic medicine in India. Almost every product of this invaluable tree has been largely employed for medical purposes. Neem works as blood purifier. Consuming raw neem leaves or neem leaf powder helps in eradicating toxins from the blood. This is one of the greatest benefits of neem tree. Azadirachtinus in the neem products have been found to act as repellents, antifeedants, affect food consumption and utilization and interfere with the growth regulation and ovarian development in insects. Neem manufacturing products are in high demand and several manufacturing companies are readily in business trying to satisfy their natural product consuming and environment sensitive market. Along with a good natural resource management program, Neem can be an income generator and a sustainable medicinal alternative in developing countries.

Some of the fundamentals of the book are technology for production of insecticides of plant origin at rural level, neem seed cake as a source of pests control chemicals, neem oil as possible biorational insecticide, chemistry of neem (azadirachta indica), a sustainable source of natural pesticides, machineries for neem processing, engineering properties of neem nut, neem and transfer of technology, processing of neem fruit and seed, processing of neem oil and its utilization, uses of neem is indigenous system of medicine, cold processing of neem seed, products from neem, development of a neem formulation and its evaluation for control of crop pests, evaluation of nematicidal potential in neem, etc.

The book covers cultivation of neem and processing of its products. It will be of immense value to all concerned with manufacturing of neem products; consultants Institutions or those who want to diversify in to production of neem based products.

Materials and Methods Results and Discussion Use of leaf Bits Use of Leaf Extracts Impregnation of Bags with Kernel Extract Surface Treatment of Bins Vapour Effect of Extract/Oil Technology for Rural Level 2. Neem seed cake as a Source of Pests Control Chemicals Methods and Materials **Results and Discussion** 3. Neem oil as Possible Biorational Insecticide Materials and Methods **Results and Discussion** 4. Improving the Productivity of Neem Trees Distribution Agroclamatic Adaptability Establishment and Growth Production and uses Non-wood Products **Environmental Safety** Problems of Neem Production and Utilization Propagation of Neem Variation in Germplasm Silvicultural Practices to Improve Productivity Establishment of neem Fruiting Seed Collection and Processing **Promotion of Neem Production** Packaging of Silvicultural Practices Popularising the Use of Neem Products Marketing of the Produce

5. Vegetative Propagation of Azadirachta indica A. Juss.
Materials and Methods
Mist Propagation
Micropropagation
Results
Mist Propagation
Micropropagation
Discussion

6. An Assay of Genetic Variability through Phenological Studies on Neem (Azadirachta indica A. Juss.)
Plantation
Materials and Methods
Observations and Discussions

7. Chemistry of Neem (Azadirachta indica), a Sustainable Source of Natural Pesticides

8. Photo-oxidation of TetranortriterpenoidsMaterials and MethodsResults and Discussion

9. New Tetra and Pentanortriterpenoids from Azadirachta indica A. Juss.
Results and Discussion
1 a-Destigloyl-1a-benzoylazadirachtin (II)
11b-Hydroxyazadirachtinin (III)
4a-benzoyl nimbandiol [V]
Ochinin Acetate [VII] and Ochinolide B [VIII]

10. Machineries for Neem Processing Materials and MethodsResults and DiscussionSummary and conclusionSuggestions for Furtehr Work

11. Engineering Properties of Neem Nut Introduction **Review of Literature** Materials and Methods Apparatus and Procedur **Dimensions and Hardness** Nut weight and Kernel-shell Mass Ratio Angle of Repose Porosity Bulk Density and Particle Density Friction **Preparation of Samples Results and Discussion Dimensions and Hardness** Nut Weight and Kernel-Shell Mass Ratio Angle of Repose and Porosity Bulk Density and Particle Density Coefficient of Friction Conclusions 12. Neem and Transfer of Technology

Use of Neem Pest Control Transfer of Neem Technology to the Farmers in India As Pest Control Agent On Tobacco On-Farm Trial Demonstration Trials Lab-to Land Programme NSKS in Integrated Pest Management On Cotton On Paddy On Pulses On Castor Use of Neem Cake as Nematicide Use of Neem Oil as a Suckericide on Tobacco Neem Cake as Organic Manure

13. Processing of Neem Fruit and Seed Availability of neem Collection and processing of fruit and seed Depulpers, driers and decorticators Driers **Decorticators Discussion of Results** Maturity, storage and pressing of seed Maturation of Oil in Stored Fruits Depulping of The Neem Fruit Cost of Operation Crushing of Neem Seed Kernels in Wardha Ghani Fall of Oil yield with Storage Processing of Neem Seed Kernel and production of Neem Oil Crushing Storage Experiments on Neem Seed Conclusions Characteristics of neem oil and its quality Specific Gravity and Refractive Index Acid Value Alcohol Soluble Material in the oil **Other Characteristics**

Unsaponifilable Matter

14. Processing of Neem Oil and its Utilization Quantitative estimation of the differents constituents of neem oil by alcohol extraction Total Dilute Alcohol Extractive of Neem Oil Large Scale Alcohol Extraction of Neem Oil Refining of alcohol-extracted oil Alkali Treatment Refining Loss on Alkali Treatment Bleaching of Neutral oil (Alcohol-Extracted and Alkali-Refined) Hydrogenation Experiments (Laboratory Scale) with Neutral and Bleached Neem Oil Refining Loss in Factory Pilot Unit Tentative Cost of the Process of Alcohol Extraction of Neem oil based on the Pilot Plant work High Pressure Splitting Deodorization and hydrogenation of purified and refined oil Alkali Refining Hydrogenation of Refined Neem Oil Soap Stearin and olein Pyronimin, a denaturant Pyronimis-A Denaturant for Alcohol Production of the Denaturants

Requirement of the Denaturants Results of tests with the denatured spirit Tentative Specifications for Pyronimin-250 Tentative Specifications for 'Total Bitters' Fraction Tentative Specifications for the Spirit Denatured with Pyronimin and 'Total Bitters' on Neem Pharmaceutical Preparations with the Bitter Constituents Preparations from Nimbidin-T and their uses Costing Other Experiments at Refining Factors influencing industrial utilization of neem oil

and its by-products

15. Medicinal Uses Uses of neem is indigenous system of medicine Medicinal Uses of Neem in Recent Times

16. Cold Processing of Neem Seed
Experiment
Seed Cleaning
Mechanical Destoner
Mechanical Sieve-shaker Separator Fitted with Air Cyclone System
Sedimentation (Gravitational) Technique
Decoration of Seed
Crushing
Discussion

17. Products from Neem Semi-greaseless cold cream Skin toning lotions Cream Cholesterin Type Herbal Soap (Neem based) Neem based tooth paste Radhas Ayurvedic Soap Arya Neem Plus Turmeric Herbal Soap Krishna Tulsi Herbal Soap Medimix Skin Care Capsule Shodha Alargin forte Beauty plus Dantshodhak Hemoclin syrup **Epidermoil Oil** Neem capsule Charmi capsules Hemocleen

18. Repellent Action of Neem Oil on Insects of Public Health Importance Methodology Results Discussion

Conclusion

19. Effect of Neem Oil: Structural and Functional Change in the Epididymis of Rats Materials and Methods Neem Oil Animals
Sperm Motility and Sperm Count Biochemical Estimations
Histological Investigation
Statistical Analysis
Results
Discussion

20. Rat Toxicity Studies with Neem Oil Materials and Methods Neem Oil Animals Biochemical Studies Statistical Analysis Results Tissue Biochemical Parameters Blood and Serum Parameters Histological Studies Discussion

21. Evaluation of Neem Extract Sprays on Maize Introduction Materials and Methods Results Discussion

22. Antifeedant and Insecticidal Activity of Some Neem Fractions Materials and Methods Results and Discussion

23. Azadirachta indica A. Juss. Stem Bark as an Anti-Leprosy Source Materials and Methods Observation and Results Pharmacognosy Macromorphology of Bark Micromorphology of Bark Powder Study Phytochemistry Biochemical Estimation (Percentage on Dry Weight Basis) Geochemical Estimation Active Principle Determination (from Ethanolic Extract) Chemical Identity Comparison Discussion

24. Evaluation of Neem Derivatives and Lantana camara L.

against Cardamom Pests Materials and Methods Field Evaluation of Neem Derivatives against the Cardamom Thrips, Sciothrips cardamomi (Ramk.) Field Evaluation of Neem Oil against Cardamom Whitefly, Dialeurodes cardamomi David & Subr. Laboratory Evaluation of the Crude Extract of Stem of Lantana camara against the Cardamom Hairy Caterpillar, Eupterots undata Laboratory Evaluation of the Crude Extract of the Stem of Lantana camara L. against Cardamom Shoot Borer, Conogethes punctiferalis (Guen.) **Results and Discussion** Effect of Neem Derivatives on Cardamom Thrips Effect of Neem Oil on Cardamom Whitefly Effect of 1 per cent Suspension of the Extract of Lantana camara on E. undata Effect of 1 per cent Suspension of the Extract of L. camara on C. punctiferalis

25. Development of a Neem Formulation and Its Evaluation for Control of Crop Pests
Materials and Methods
Product Development
Laboratory Studies
Field Studies
Results and Discussion
Laboratory Studies
Field Studies
Field Studies

26. Effect of Neem Cake, Neem Oil, Repelin and Carbofuran on Control of Soybean Nematodes Materials and Methods Results and Discussion

27. Thyroid Hormones and Intermediary Metabolism
in Fish: Influence of Neem Kernel Extract
Materials and Methods
Results
Effect of T3 or T4 in Fish Injected with NKE
Effect of T3 and T4 in Fish Immersed in NKE-treated Water
Discussion

28. Clinical Studies with Praneem Polyherbal Cream in Chlamydial Cervicitis Materials and Methods Polyherbal Cream Patients Diagnostic Methods for C. trachomatis Dose Schedule Follow-up Results Discussion 29. Identification and Characterization of the Immunomodulator Fraction from Neem Seed Extract Responsible for Long-term Anti-fertility Activity Materials and Methods Results Conclusion 30. Identification of Effective and Inexpensive Neem (Azadirachta indica A. Juss.) Seed Kernel Extract Materials and Methods Seed Collection and Processing Extraction Aqueous Extract (AE) Ethanolic Extract (EtoHE) Hexane Extract (HE) Chloroform Extract of DNKP (CHEDK) Ethanol Soluble (Eto HSHE) and Insoluble (EtoHIHE) Part of Hexane Extract Extract Yield Formulation of the Extracts Rearing Culture of H. armigera **Biological Testing** Oviposition Ovicidal Feeding deterrent Growth and Development Results Effect on Oviposition Effect on Egg Hatching Effect on Feeding Effect on Growth and Development Pupal Mortality and Adult Emergence Discussion Effect of oviposition Effect on Egg Hatching Effect on Feeding Effect on Growth and Development of Larvae Conclusion 31. Field Evaluation of Some Botanical Insecticides Alone and in Combination with Other Insecticides for Management of Bollworm Complex on Cotton Materials and Methods

Results and Discussion RD-9 Repelin Neemark Ind-Ne Conclusions

32. Evaluation of Enriched Neem (Azadirachta indica A. Juss.) Seed Extracts against Mango Hoppers, Idioscopus nitidulus Walker and Amritodus atkinsoni Leth.

Materials and Methods Laboratory Trial Field trials Results Laboratory trials **Field Trials** Evaluation of neem derivatives for control of mango hopper, I. nitidulus Discussion 33. Potential of Neem in Insect Pest Management in Rice Introduction Materials and Methods Results and Discussion Effect of Neem Oil on Rice Leaf Folder and Stem Borer Efficacy of Neem-based Insecticides Against Stem Borer Effect of Neem-based Insecticides on the Growth and Development of White-backed Planthopper Combination of Neem-based Products with Synthetic Insecticides 34. Effect of Neem Kernel Extract and Neem Oil on Nutritive and Reproductive Physiology of Heliothis armigera Hub. Materials and Methods Mass Culture and Biological Studies **Preparation of Extracts** Treatment **Quantitative Food Utilization** Efficiency of Digestion **Reproduction Studies Biochemical Assays Enzyme Assays** RESULTS Effects on Reproductive Parameters Effects on Quantitative Food Utilization Effects on Efficiency of Digestion and Digestive Enzymes Effect on Protein, Glycogen, Lipid and Enzyme Profiles in Subsequent Female Moths Effect on Protein, Glycogen, Lipid and Enzyme Profiles in Subsequent Male Moths Discussion Conclusion 35. Bioefficacy of Some Neem Formulations against Spodoptera litura F. Materials and Methods Laboratory Tests Nursery Experiment Studies on Effect of Repelin B versus Repelin A and NSKS against S. litura on Castor in Laboratory

Studies on Effect of Repelin B Alone and in Combination

with Endosulfan against S. litura (1992)

Bio-efficacy of Repelin B and Other New Neem Formulations against S. litura on Tobacco (1992) **Results and Discussion** Laboratory Tests **Nursery Experiments** Effect of Repelin B versus Repelin A and NSKS against S. litura on Castor in Laboratory **Choice Situations No-choice Situation** Effect of Repelin B alone and in Combination with Endosulfan against Tobacco Caterpillar, s. litura on Tobacco Bio-efficacy of Repelin B and Other New Neem Formulations against S. litura (1992) Laboratory tests **No-choice Situation Nursery Tests**

36. Effects of Extracts from Neem on Aphids (Homoptera: Aphididae) and Their Natural Enemies Materials and Methods Azadirachtin Content Aphid Control Aphid Natural Enemies Antifeedant Activity Aphid Reproduction Results and Discussion Aphid Control Aphid Natural Enemies Antifeedant Activity Aphid Growth and Development Aphid Reproduction Conclusion

37. Azadirachtin Content and Bioactivity of Some Neem Ecotypes of India Materials Methods Estimation of Azadirachtin Content Kernels Oil Extraction and Enrichment Physicochemical Properties of Oil Azadirachtin Estimation by PHLC Insect Growth Regulation (IGR) **Fungicidal Activity Results and Discussion** Azadirachtin Content of Neem Ecotypes Kernels Oil Enrichment **Insect Growth Regulation Fungicidal Property**

38. The Effects of Various Neem Formulations on Mortality Rate and Morphogenetic Defects Upon Schistocerca gregaria (Forskal) Larvae Materials and Methods Laboratory Insects **Field Insects** Neem Products Controls Application of the Larvae Application of the Vegetation Results Mortality Rates Following Application of Neem Products to Larvae Mortality Rates after Treatment of the Plants with Enriched Neem Oil: The Repellent Effect of Neem **Morphogenetic Defects** Discussion

39. Efficacy of Cakes in the Management of Root Knot Nematode (M. arenaria) in Groundnut Materials and Methods Results and Discussion

40. Efficacy Profile of a Commercial Neem Insecticide Factors Influencing the Commercial Success of Azadirachtin Consistency and Quality of Extracts Product Positioning Supply and Availability Increase in Environmental Awareness The Acceptance of Insect-Growth-Regulators Cost of Raw Material Important Commercial Characteristics of Azadirachtin Representative Efficacy Data with Azatin/Turplex/Align in the United States

41. Evaluation of Nematicidal Potential in Neem Allelochemicals Meterials and Methods Results Discussion

Directory Section

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