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.

Contents

1. Technology for Production of Insecticides of Plant Origin at Rural Level 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

2. Neem seed cake as a Source of Pests Control Chemicals Methods and Materials

Results and Discussion

Technology for Rural Level

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 Tetranortriterpenoids

Materials and Methods

Results 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 Methods

Results and Discussion

Summary and conclusion

Suggestions 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

Onami capsuics

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

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

About NIIR

related industries.

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