

# Medicinal Plants Cultivation & Their Uses

**Author:-** H. Panda

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The medicinal plants have been used since ancient times for the treatment of human ailments. Over three quarters of the world population relies mainly on plants and plant extracts for health care. The herbal medicines today symbolize safety in contrast to the synthetics that are regarded as unsafe to human and environment. In the primeval times, the Indian sagacious held the view that herbal medicines are the only resolution to treat numeral health related problems and diseases. Although herbs had been prized for their medicinal, flavoring and aromatic qualities for centuries, the synthetic products of the modern age surpassed their importance, for a while. However, the blind dependence on synthetics is over and people are returning to the naturals with hope of safety and security.

Understanding the worth and heritage of excellence of medicinal plants the book makes an attempt to provide information on cultivation of medicinal plants and their different uses. This book includes the chemical composition of plants, plant protection, essential oils extracted from plants, cultivation of more than 100 medicinal plants, list of rare medicinal plants and their various uses.

The book covers different parameters of medicinal plants cultivation and various ways of their uses. It covers medicinal plants containing alkaloids, steroids flavonoids, glycosides, terpenoids, additives and other active metabolites. We hope that this book will be useful not only for technologists, professionals, but also for farmers, traders, exporters and importers of Medicinal Plants.

1. Cultivation and Utilization of Muskdana
2. Cultivation and Utilization of Ammi Majus
3. E. II. Indian Bdellium (Commiphora Wightu)
4. Cephaelis Ipecacuanha (Ipecac)
5. E. I. Cultivation of German Chamomile : A Review
6. Cinchona Calisaya
7. Digitalis Species as a Source of Cardiac Glycosides
8. Dubosia Species
9. Glycyrrhiza Glabra Linn.
10. Hyoscyamus Niger Linn.
11. Cultivation and Utilisation of Isubgol : Plantago Ovata
12. Podophyllum : A Review
13. Antimicrobial and Medicinal Properties of Ferns
14. Common Plants Used as Traditional Antimicrobials by Tribal People
15. Acacia Franesoiana, Willd.

16. *Abies Webbiana*, Lindl.
17. *Adhatoda Vasica* Nees
18. *Aegle Marmelos*
19. *Aloe Littoralis*-See *A. Barbados*; *A. Indica*.
20. *Allium Sativum*
21. *Aloe Indica*
22. *Alpinia Galanga*
23. *Alstonia Scholaris*
24. *Andrographis Paniculata* Nees
25. *Andropogon Citratus*, DC., or *A. Shoenanthus*.
26. *Antiaris Toxicaria*, Lesch.
27. *Celery*
28. *Archis Hypogaea*, Linn.
29. *Artemisa Absinthium*, Linn.
30. *Artemisia Maritima*, Linn. or *A. Brevifolia*, Wall.
31. *Arundo Bambos*
32. A Review on The Genus : *Aristolochia*
33. *Asparagus Racemosus*
34. *Azadirachta Indica*
35. *Bambusa Arundinaceae*
36. *Bassia Latifolia*, Roxb.
37. *Bergenia Ligulata* Wall
38. *Boerhaavia Diffusa* Linn.
39. *Boswellia Serrata* Roxb.
40. *Butea Frondosa*
41. *Caesalpinia Sappan*, Linn.
42. *Cajanus Indicus*, Spreng. & C. Bichlor and C. Flalvus.
43. *Calotropis Procera*. R. Br.
44. *Carum Copticum*
45. *Cassia Angustifolia* Vahl
46. *Cassia*
47. *Celasturs Paniculatus* Willd.
48. *Centella Asiatica*
49. *Cichorium Endivia* Linn.
50. *Cinnamomum Tamala*
51. *Cissampelos Pareira*, Linn.
52. *Cissus Quadrangularis*
53. *Citrus Limonum*, Sp. Risso.
54. *Citrus Medica* Linn.
55. *Cleroendrum Serratum* (Linn.) Moon
56. *Commiphora Mukul*
57. Chemistry of *Costus Speciosus*
58. *Crataeva Nurvala*
59. *Crocus Sativus*
60. *Cucumis Melo*, Linn.
61. *Cucumis Trigonus*, Roxb.
62. *Cycyrbita Maxima*, Duchesne.
63. *Curcuma Zedoaria*, Rose.
64. *Cynodon Dactylon*
65. *Daemia Extensa*, R. Br.
66. *Dolichos Biflorus*
67. *Eclipta Alba* Hassk
68. *Elettaria Cardamomum*

69. *Embelia Ribes*
70. *Encostemma Littorale*
71. *Eugenia Aromatica*
72. *Evolvulus Alsinoides*
73. *Ferula Foetida*
74. *Feronia Elephantum, Correa*
75. *Ficus Racemosa*
76. *Fumaria Officinalis*
77. *Galega Purpurea, Linn.*
78. *Garcinia Mangostana, Linn.*
79. *Hedychium Spicatum*
80. *Hermodactylus Gol*
81. *Hibiscus Rosa - Sinensis Linn.*
82. *Holarrhena Antidysenterica*
83. *Impomoea Headeraceae, Jacq.*
84. *Inula Racemosa Hook F.*
85. *Jatropha Montana or Baliospermum*
86. *Juglans Regia, Linn.*
87. *Lawsonia Inermis Linn.*
88. *Leptadenia Reticulata*
89. *Liquidambar Orientalis, Miller.*
90. *Luffa Acutangula, Roxb.*
91. *Luffa Amara, Roxb., or L. Plucketiana*
92. *Lycopersicum Esculentum, Mill or Solanum*
93. *Matricaria Chamomilla, Linn. M. Suaveolens*
94. *Medicago Sativa*
95. *Melaleuca Leucadendron, Linn.*
96. *Melia Azedarach, Linn. M. Sempervirens.*
97. *Mesua Ferrea, Linn.*
98. *Myrica Nagi, Thunb, or M. Sapida; M. Cerifera*
99. *Nardostachys Jatamansi*
100. *Nelumbo Nucifera Gaertn*
101. *Nigella Sativa Linn., N. Indica*
102. *Operculina Turpethum (Linn.)*
103. *Oryza Sativa Linn.*
104. *Phoenix Dactylifera Linn.*
105. *Phyllanthus Emblica Linn.*
106. *Phyllanthus Niruri Linn.*
107. *Pinus Longifolia Roxb.*
108. *Pisum Sativum, Linn.*
109. *Piper Betle*
110. *Pluchea Lanceolata B. C.*
111. *Psychotria Ipecacuanha Linn*
112. *Pterocarpus Marsupium Roxb.*
113. *Pterocarpus Santalinus Linn.*
114. *Castor Seeds*
115. *Saraca Indica Linn.*
116. *Sesamum Indicum, DC.*
117. *Sinapis Juncea*
118. *Soja Hispida. Moench or Glycine Soja*
119. *Solanum Indicum Linn.*
120. *Strychnos Nuxvomica Linn.*
121. *Tephrosia Purpurea (Linn.)*

122. *Tinospora Cordifolia* (Willd) Miers
123. *Tribulus Terrestris* Linn.
124. *Trichosanthes Dioica* Roxb.
125. *Trigonella Foenum- Graeccum* Linn.
126. *Tylophora Indica* (Burm.) Merr.
127. *Valeriana Wallichii* DC.
128. *Vanda Roxburghii* R. Br.
129. *Viola Odorata* Linn.
130. *Vitex Negundo* Linn
131. *Wedelia Calendulaceae* Less
132. *Ashwagandha* [*Withania Somnifera* Dunal (Solanaceae)]
133. *Woodfordia Fruticosa* Kurz
134. *Zingiber Officinal* Roscoe

#### LIST OF RARE MEDICINAL PLANTS

135. *Acalypha Indica* Linn.
136. *Agava Cantula* Roxb.
137. *Ageratum Conyzoides* Linn.
138. *Alectra Parasitica*
139. *Ampelocissus Latifolia* (Roxb). Planch.
140. *Anisomeles Indica* (Linn.) Kuntze.
141. *Apama Siliquosa* Leamk.
142. *Atylosia Scarabaeodies* (Linn.) Benth.
143. *Bidens Biternata* (Lour.) Merr. & Sherff.
144. *Borreria Articularis* (L.F.) F.N. Williams
145. *Bridelia Retusa* Spreng.
146. *Caesalpinia Digyna* Rottl.
147. *Cardiospermum Halicacabum* Linn.
148. *Clerodendrum Viscosum* Vent.
149. *Cochleospermum Religiosum* (L.) Alston
150. *Craterostigma Plantagineum* (Benth.) Hochst.
151. *Cleistanthus Collinus* Benth.
152. *Ceropegia Bulbosa* Roxb.
153. *Commelina Benghalensis* Linn.
154. *Corallocarpus Epigeus* C. B. Clare
155. *Costus Speciosus* (Koenig.) Sm.
156. *Dipteracanthus Prostratus* (Poir.) Nees.
157. *Elytraria Acaulis* (Linn. F.) Lindau
158. *Enicostema Hyssopifolium* (Willd.) Verdoorn.
159. *Glossogyne Bidens* (Retz.) Alston.
160. *Glycosmis Mauritiana* (Lam.) Tanaka
161. *Leonotis Nepetifolia* (L.) R. Br.
162. *Lepidagathis Cristata* Willd.
163. *Morinda Citrifolia* Linn.
164. *Naregamia Alata* W. & A.
165. *Orthosiphon Pallidus* Royle Ex Benth
166. *Pentanema Indicum* (L.) Ling.
167. *Phlogacanthus Thyrasiformis* (Hard) Mabb.
168. *Rivea Hypocrateriformis* (Desr.) Choisy.
169. *Sauromatum Venosum* (Ait.) Kunth.
170. *Stachyrarpheta Jamaicensis* (L.) Vahl.
171. *Solena Amplexicaulis* (Lamk) Gandhi
172. *Typhonium Frilobatum* Schott.

- 173. Tridax Procumbens Linn.
- 174. Tragia Hispida Linn.
- 175. Ventilago Denticulata Willd.
- 176. Xanthium Strumarium Linn.

## About NIIR

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**NIIR PROJECT CONSULTANCY SERVICES**, 106-E, Kamla Nagar, New Delhi-110007, India.

**Email:** [npcs.india@gmail.com](mailto:npcs.india@gmail.com) **Website:** [NIIR.org](http://NIIR.org)

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