

Medicinal Plant Species in high Volume Trade/ Consumption (> 100 MT) year

As per "Demand and supply of medicinal plants in India" (Ved, D.K, and G.S, Goraya, 2008), a study supported by National Medicinal Plants Board, 960 species are in trade. Amongst them, 178 species fall under high volume trade or consumption category. i.e >100 MT/year. The major sources of supply reveals that 21 species (12%) are obtained from temperate forests, 70 species (40%) are obtained from tropical forests, 36 species (20%) are obtained largely or wholly from cultivation / plantations, 46 species 25% are obtained largely from road sides and other degraded land use elements and the remaining 5 species (3%) are imported from other countries. The following list provides botanical name & trade name of high volume traded medicinal plants.

1. *Abelmoschus moschatus* Medik. -(Mushakdana)
2. *Abies spectabilis* (D.Don) Spach -Talispatra
3. *Abrus precatorius* L. -Gunja
4. *Acacia catechu* (L.f) Willd. -Katha
5. *Acacia nilotica* (L.) Willd. ex Del. -Babul
6. *Acacia sinuata* (Lour.) Merr. -Shikakai
7. *Achyranthes aspera* L. -Apamarga
8. *Aconitum ferox* Wall. ex Ser. -Vachnag
9. *Aconitum heterophyllum* Wall. ex Royle -Atis
10. *Acorus calamus* L. -Vach
11. *Adhatoda zeylanica* Medic. -Adusa
12. *Aegle marmelos* (L.) Correa -Bael
13. *Aerva lanata* (L.) Juss. -Cheroola
14. *Albizia amara* (Roxb.) Boivin -Krishna shirish
15. *Aloe barbadensis* Mill. -Kumari
16. *Alpinia calcarata* (Haw.) Roscoe -Chittartha
17. *Alstonia scholaris* (L.) R.Br. -Saptaparni
18. *Andrographis paniculata* (Burm.f.) Wall. ex Nees - Kalmegh
19. *Anogeissus latifolia* (Roxb. ex DC.) Wall. ex Guill. & Perr. -Dhawada
20. *Aquilaria agallocha* Roxb. -Agar kala
21. *Asparagus racemosus* Willd. -Shatavari
22. *Azadirachta indica* A.Juss. -Neem
23. *Bacopa monnieri* (L.) Wettst. -Brahmi
24. *Baliospermum montanum* (Willd.) Muell. -Arg-Dantimool
25. *Berberis aristata* DC. -Daruhaldi
26. *Bergenia ciliata* (How.) Sternb. -Pashanabheda
27. *Boerhavia diffusa* L. -Punarnava
28. *Bombax ceiba* L. -Mochrus
29. *Boswellia serrata* Roxb. -Salai guggul
30. *Buchanania lanzan* Spreng -Chironji
31. *Butea monosperma* (Lam.) Taub. -Tesu phool
32. *Caesalpinia sappan* L. -Pathimugam
33. *Cardiospermum halicacabum* L. -Mudakkathan
34. *Careya arborea* Roxb. -Vaari kumbha
35. *Cassia absus* L. -Chaksoo
36. *Cassia angustifolia* Vahl -Sonamukhi
37. *Cassia fistula* L. -Amaltas
38. *Cassia tora* L. (L.) Roxb -Chakoda beej
39. *Catbaranthus rosens* (L.) G.Don -Sadabahar
40. *Cedrus deodara* (Roxb.) G.Don -Devdar
41. *Celastrus paniculatus* Willd. -Malkangani
42. *Centella asiatica* (L.) Urban -Brahmi booti
43. *Centratberum antbelminticum* (L.) Kuntze -Kali zeeri
44. *Chlorophytum tuberosum* Baker - Safed musli
45. *Cichorium intybus* L. -Kasani
46. *Cinnamomum sulphuratum* Nees -Dalchini
47. *Cinnamomum tamala* (Buch.-Ham.) Nees & Eberm - Tejpatta
48. *Citrullus colocynthis* (L.) Schrad. -Indrayan
49. *Clerodendrum plomides* L.f. -Arnimool
50. *Commiphora wightii* (Arn.) Bhandari -Guggul
51. *Convolvulus microphyllus* Sieb. ex Spreng - Shankhapushpi
52. *Coscinium fenestratum* (Gaertn.) Coleb. -Maramanjil
53. *Croton tiglium* L. -Jamalghota
54. *Curculigo orchioides* Gaertn. -Kali musli
55. *Curcuma angustifolia* Roxb. -Thikhur
56. *Curcuma zerbumbet* Roxb. -Kachur
57. *Cyclea peltata* (Lam.) Hook.f. & Thomson -Paadu kizhangu
58. *Cynodon dactylon* (L.) Pers. -Durva
59. *Cyperus esculentus* L. -Musta
60. *Cyperus rotundus* L. -Nagamotha
61. *Datura metel* L. -Duttura
62. *Decalepis hamiltonii* Wight & Arn. -Magali
63. *Desmodium gangeticum* (L.) DC. -Salparni
64. *Eclipta prostrata* (L.) L. -Bhringraj
65. *Embelia tjeriam-cattam* (Roem. & Schult.) DC. -Vaividang
66. *Emblica officinalis* Gaertn. - Amla
67. *Ephedra gerardiana* Wall. ex J.A. Mey -Somlata
68. *Ficus benghalensis* L. -Vada chhal
69. *Ficus religiosa* L. -Lakh pippal
70. *Fumaria indica* (Hauskn.) Pugsley -Shahtara
71. *Garcinia indica* (Dup.) Choisy -Kokam
72. *Gardenia resinifera* Roth -Dikamali
73. *Gloriosa superba* L. -Kalihari
74. *Glycyrrhiza glabra* L. -Mulethi
75. *Gmelina arborea* Roxb. -Gambar chhal

Research findings

76. *Gymnema sylvestre* R.Br. ex Schult.-Gudmar
77. *Hedyotis corymbosa* (L.) Lam-Pitpapra
78. *Helicteres isora* L. -Marodphali
79. *Hemidesmus indicus* (L.) R.Br. -Anatmool
80. *Holarrhena pubescens* (Buch.-Ham.) Wall. ex G.Don-Kutja
81. *Holoptelea integrifolia* (Roxb.) Planch. -Aavithali
82. *Holostemma ada-kodien* Schult.-Jeevanti
83. *Hygrophila schulli* (Buch.-Ham.) M.R. & S.M.Almeida-Tal makhana
84. *Indigofera tinctoria* L. -Akika
85. *Inula racemosa* Hook.f. -Pushkarmool
86. *Ipomoea mauritiana* Jacq. -Palmudhakkan
87. *Ipomoea nil* (L.) Roth -Kaladana
88. *Isora cocinea* L. -Thechippoovu
89. *Jatropha curcas* L. -Nepalam seed
90. *Juniperus communis* L. -Hauber
91. *Jurinea macrocephala* DC.-Dhoop
92. *Kaempferia galanga* L. -Kachora
93. *Lannea coromandelica* (Houtt.) Merr. -Jingini
94. *Lawsonia inermis* L. -Mehndi
95. *Lepidium sativum* L. -Kurassani
96. *Litsea glutinosa* (Lour.) C.B. Rob.-Maida chhal
97. *Lobelia nicotianaefolia* Roth ex Roem. & Schult. -Lobelia leaves
98. *Madhuca indica* J.F.Gmel -Madhuka
99. *Merremia tridentata* (L.) Hallier. f.-Prasarani
100. *Mesua ferrea* L. - Nagekesar
101. *Mimusops elengi* L. -Bakul
102. *Morinda pubescens* J.E.Sm.-Manjanathi
103. *Mucuna pruriens* (L.) DC. -Kaunch beej
104. *Nardostachys grandiflora* DC. -Jatamansi
105. *Nilgiantibus aliatus* (Nees) Bremek -Kurinji
106. *Ocimum americanum* L. -Ban tulasi
107. *Ocimum basilicum* L. -Kali tulasi
108. *Ocimum tenuiflorum* L. [= *O. sanctum* L.]-Tulasi
109. *Onosma hispidum* Wall. ex G.Don -Ratanjot
110. *Operculina turpethum* (L.) J.Silva Manso-Nishoth
111. *Oroxylum indicum* (L.) Benth. ex Kurz. -Tetu chhal
112. *Parmelia perlata* (Huds.) Ach. -Chadila
113. *Peganum harmala* L. -Harmal
114. *Phyllanthus amarus* Schumacher. & Thenn. -Bhumiamla
115. *Picrobiza kurroa* Royle ex Benth.-Kutaki
116. *Piper chaba* Hunter -Kabab chini
117. *Piper longum* L. -Pippali
118. *Pistacia integerrima* Stew. ex Brand.-Kakar singi
119. *Plantago ovata* Forssk. -Isabgol
120. *Plectranthus barbatus* Andrews - Gandhira
121. *Pluchea lanceolata* (DC.) Oliver & Hiem. -Rasna
122. *Plumbago zeylanica* L. - Chitrak
123. *Pongamia pinnata* (L.) Pierre-Karanji
124. *Premna integrifolia* L.-Arnimool
125. *Prunus armeniaca* L.-Chuli
126. *Pseudartabria viscida* (L.) Wight & Arn. -Moorva
127. *Psoralea wrylifolia* L. -Bawachi
128. *Pterocarpus marsupium* Roxb. -Damulakhwain
129. *Pterocarpus santalinus* L.f. -Rakatachandan
130. *Quercus infectoria* G.Oliver -Majuphal
131. *Rauwolfia serpentina* (L.) Benth. ex Kurz -Sarpagandha
132. *Rheum australe* D.Don-Revani chini
133. *Rhododendron anthopogon* D.Don -Talispatra
134. *Rubia cordifolia* L. -Manjistha
135. *Santalum album* L. -Chandan
136. *Sapindus mukorossi* Gaertn.-Reetha
137. *Saraca asoca* (Roxb.) W.] de Wilde -Ashoka chhal
138. *Saussurea costus* (Falc.) Lipsch.-Kuth
139. *Schreberia swietenoides* Roxb. -Ghanti phool
140. *Semecarpus anacardium* L.f. -Balave
141. *Shorea robusta* Gaertn. -Raal
142. *Sida rhombifolia* L-Bala
143. *Silybum marianum* (L.) Gaertn.-Milk Thistle
144. *Simmondsia chinensis* (Link) C.K.Schneid.-Jojoba

What's in news?

- On 4th Jan, 2008, a book titled: **Demand and Supply of Medicinal Plants in India**, Ved, D.K. and G.S. Goraya, 2008, Bishen Singh Mahendra Pal, Dehradun was released by Dr. Gaurishankar Shejwar, Honorable Health Minister, Madhyapradesh at Indore in the presence of Ms. Anita Das, Secretary AYUSH and Mr. Sajawan, CEO, National Medicinal Plants Board, Gol.
- On 21st March 2008, a CDROM titled: **Medicinal plants of Orissa**, was released by the Principal Chief Conservator of Forest,, Bhuvaneshwar.
- On 11th April, four CDROMs titled (**Medicinal plants in Siddha System of Medicine, Medicinal plants in Unani, Medicinal plants In Homeopathy, and Atlas of Geographical Distribution of Prioritized Indian Medicinal Plants, supported by MoEF, and**

145. *Sisymbrium irio* L.-Khubbkalan
146. *Smilax glabra* Roxb. -Chopchini
147. *Solanum anguivi* Lam -Katheli badi
148. *Solanum nigrum* L. -Makoi 149. *Solanum virginianum* L. -Kateli
150. *Soymida febrifuga* (Roxb.) A.Juss. -Rohan
151. *Sphaeranthus indicus* L. -Gorakh mundi
152. *Sterculia urens* Roxb. -Karaya
153. *Stereospermum chelonoides* (L.f.) DC-Patala
154. *Strychnos nux-vomica* L. -Kuchla
155. *Strychnos potatorum* L. -Nirmali
156. *Suertia chirayita* (Roxb. ex Fleming) H.Karst. -Chirayita
157. *Symplocos racemosa* Roxb.-Pathani Lodh
158. *Taxus wallichiana* Zucc. -Talispatra
159. *Tephrosia purpurea* (L.) Pers. -Sarpankha
160. *Terminalia arjuna* (Roxb.ex DC.) Wight & Arn. -Arjun
161. *Terminalia bellirica* (Gaertn.)Roxb.-Behra
162. *Terminalia chebula* Retz. -Harda
163. *Tinospora cordifolia* (Willd.) Miers ex Hook.f. & Thomson -Giloy
164. *Trachyspermum ammi* (L.) Sprague -Ajwain
165. *Tragia involucrata* L. -Barhanta
166. *Tribulus terrestris* L. -Gokhru
167. *Trichosanthes cucumerina* L. -Patol panchang
168. *Valeriana jatamansi* Jones -Musakbala
169. *Vateria indica* L. -Manda dhupa
170. *Vetiveria zizanioides* (L.) Nash -Lavancha
171. *Viola pilosa* Bi.-Banafsha
172. *Vitex negundo* L. -Neergundi
173. *Withania coagulans* Dunal -Paneerdodi
174. *Withania somnifera* (L.) Dunal -Ashwagan dha
175. *Woodfordia fruticosa* (L.) Kurz -Dhai phool
176. *Wrightia tinctoria* R.Br. -Inderjau
177. *Ziziphus jujuba* (L.) Gaertn-Ber
178. *Ziziphus sylvayrus* (Retz.) Willd. -Ghonta phala

Daruharidra Is it Berberis or Coscinium ?

Roots and wood of *Berberis* spp. (*Berberis aristata*, *B. Lycium*, *B. asiatica*, *B.Chitira*, etc) from western Himalayan states enter the trade as 'Kashmal' and become 'Daruharidra' or 'daruhaldi' in the larger markets like Delhi. Similarly, wood of *Coscinium fenestratum* from western ghats enters trade as 'Maramanjil' and also becomes 'Daruharidra' in the larger markets in Southern India. 'Daruharidra' forms an important raw material in a number of classical formulations and is used in significant quantities. Information from the industry would at best provide information about the quantities of 'Daruharidra' used by it. However, whether this material pertains to one or more species of the genus *Berberis* from Himalayas or *Coscinium fenestratum* from Western Ghats remains unclear.

New Release



The "Demand and Supply of Medicinal Plants in India", based on a nation-wide study on the consumption and sourcing of medicinal plants, seeks to fill this information gap. The total annual demand of botanical raw drugs in the country for the year 2005-06 has been estimated as 3,19,000 MT with corresponding trade value of Rs. 1,069 crores. The publication contains a check-list of 960 medicinal plant species, which form source of 1289 botanicals recorded in trade. Of these 960 species, 178 species have been identified for priority management action due to their high annual demand to meet needs of domestic herbal industry, rural households and exports. Supply position of the traded species has been looked into and source-wise lists of the 178 species in high trade have also been provided for focused action. Recommendations for improving the status of medicinal plant resources in the country have also been provided.

The text is laced with graphic presentation of results and provides substantial supporting information in the form of boxes. The book attempts to provide with reliable data in a consolidated manner and may be very useful for planners and policy makers for management and holistic development of medicinal plant sector. Dehra Dun & FRLHT, Bangalore, India.

Citation

Ved D.K. & G. S. Goraya (2008), Demand and Supply of Medicinal Plants in India, Bishen Singh, Mahendra Pal Singh, Dehra Dun & FRLHT, Bangalore, India.

"Jalabandhu", a copper coil for water purification", designed and developed by FRLHT were released by Mr. Sam Pitroda, Chairperson, Knowledge Commission, on the mega event -**Tri-murti Avatar** Celebration, at FRLHT. On the same occasion, FRLH Herbarium and Raw Drug Repository building and Indian Institute of Ayurveda and Integrated Medicine wing was officially inaugurated.

- On 30th July, 35 teachers from Kendriya Vidyalaya Sangathan, Bangalore Region participated in Teachers' Training program workshop.
- 30th May 2008, an edited book titled, Kinhal G.A. and R.J. Rao, **Adaptive Management of Medicinal Plants and NTFPs-Strategies, Implication and Policy for Sustainable Harvesting**, Bishen Singh Mahendra Pal, Dehradun was released by Mr. A.K. Verma, I.F.S., PCCF and Mr.B.K. Singh I.F.S, Additional P.C.C.F, Karnataka Forest Department, Aranya Bhavan, Bangalore.
- On 10th July 2008, a CDR OM titled: **Medicinal plants of Rajasthan**, was released by P.C.C.F., Udaipur.