



<i>Butea monosperma</i>	Palash	Seeds	√			
<i>Calotropis procera</i>	Arka/Aak	Leaves	√			
<i>Calotropis gigantea</i>	Arka/Aak	Leaves	√			
<i>Carthamus tinctorius</i>	Kusum Phol	Floral parts	√			
<i>Cassia angustifolia</i>	Senna	Leaves Pods	√ √		√ √	
<i>Cassia fistula</i>	Amaltas	Fruit		√		
<i>Cedrus deodara</i>	Devdar	Wood		√	√	
<i>Celastrus paniculata</i>	Malkagani	Seed		√		
<i>Centella asiatica</i>	Mandookparni	Leaves			√	
<i>Cichorium intybus</i>	Kashni	Root Seeds	√			√ √
<i>Cinnamomum tamala</i>	Tejpatra	Leaves	√			√
<i>Cinnamomum verum</i>	Dalchini	Bark		√	√	
<i>Cissus quadrangularis</i>	Harhajorh	Stem			√	
<i>Clerodendrum serratum</i>	Bharangi	Bark			√	
<i>Commiphora wightii</i>	Guggulu	Gum-resin				√
<i>Crataeva nurvala</i>	Varun	Bark			√	√
<i>Crocus sativus</i>	Keshar	Stigma				√
<i>Curculigo orchioides</i>	Kali Mushli	Rhizome	√	√		
<i>Cyperus rotundus</i>	Mustaka	Rhizome			√	
<i>Desmodium gangeticum</i>	Shalparni	Aerial parts			√	
<i>Dioscorea bulbifera</i>	Varahikand	Tuber		√		
<i>Eclipta prostrata</i>	Bhringraj	Whole Plant		√		
<i>Embelia ribes</i>	Vidanga	Fruit				√
<i>Ferula asfoetida</i>	Heeng	Gum-resin	√	√		
<i>Ficus benghalensis</i>	Vata/Bargad	Bark			√	√
<i>Ficus carica</i>	Anjeer	Fruit		√		
<i>Ficus racemosa</i>	Udumbar	Bark			√	√
<i>Ficus religiosa</i>	Peepal	Bark			√	√
<i>Gmelina arborea</i>	Gambhar	Bark			√	√
<i>Gymnema sylvestre</i>	Gurmar	Leaves			√	



<i>Hedychium spicatum</i>	Karpoorkachri	Rhizome	√			
<i>Hemidesmus indicus</i>	Anantmool	Root	√			
<i>Holarrhena antidysenterica</i>	Kutaz	Bark				√
	Indarajava	Seed	√			
<i>Hyoscyamus niger</i>	Khursani Ajwain	Seed		√		
<i>Inula racemosa</i>	Pushkarmool	Root			√	
<i>Ipomoea digitata</i>	Kshir-vidari	Tuber			√	√
<i>Madhuca indica</i>	Mahua	Flowers	√			
<i>Martynia diandra</i>	Kakanasha	Fruits			√	
<i>Mesua ferrea</i>	Nagkeshar	Stamen	√			
<i>Mimosa pudica</i>	Lajwanti	Whole Plant	√			
<i>Mimops elengi</i>	Vakula	Bark			√	
<i>Moringa oleifera</i>	Sahajana	Fruit	√			
<i>Mucuna pruriens</i>	Kaunch Beej	Seed	√			
<i>Myrica esculenta</i>	Kaiphali	Bark		√	√	
<i>Myristica fragrans</i>	Jaiphali	Fruit		√	√	
<i>Nardostachys jatamansi</i>	Jatamansi	Rhizome				√
<i>Operculina turpethum</i>	Nishoth	Root			√	
<i>Oroxylum indicum</i>	Syonaka	Barks				√
<i>Parnelia perlata</i>	Chharila	Ascolichen		√	√	
<i>Phyllanthus emblica</i>	Amla	Fruit/Seed				√
<i>Picrorrhiza kurroa</i>	Kutki	Rhizome			√	
<i>Piper longum</i>	Pippali	Fruit	√			
<i>Plumbago indica</i>	Chitrakmool	Root	√			√
<i>Plantago ovata</i>	Isabgol	Seed	√			
<i>Podophyllum hexandrum</i>	Bankakri	Rhizome		√		
<i>Premna integrifolia</i>	Agnimantha	Stem			√	√
<i>Psoralea corylifolia</i>	Bakuchi/Somraji	Seeds				√
<i>Pterocarpus marsupium</i>	Vijayshal	Heart wood			√	
<i>Pterocarpus santalinus</i>	Raktachandan	Heart wood	√			√
<i>Rauwolfia serpentina</i>	Sarpgandha	Root		√	√	



<i>Rheum australe</i>	Rewandchini	root			√	
<i>Rubia cordifolia</i>	Manjishtha	Stem			√	√
<i>Santalum album</i>	Chandan	Wood			√	√
<i>Sapindus mukorossi</i>	Reetha	Seed				√
<i>Saraca asoca</i>	Ashoka	Bark			√	
<i>Saussurea costus</i>	Kutha	Root			√	
<i>Sida cordifolia</i>	Bala	Leaves	√			√
<i>Solanum anguivi</i>	Vrihati	Root & Stem	√	√		
<i>Solanum nigrum</i>	Makoy	Fruit Whole Plant	√ √			
<i>Solanum virginianum</i>	Kantkari	Whole Plant	√			
<i>Spheranthus indicus</i>	Mundi	Fruits	√	√		
<i>Swertia chirayita</i>	Chirata	Whole Plant			√	
<i>Syzygium cumini</i>	Jamun	Seed Bark		√	√	
<i>Syzygium aromaticum</i>	Lavanga	Floral buds				√
<i>Taxus baccata</i>	Thuner	Leaves			√	
<i>Tephrosia purpurea</i>	Sarpaunkha	Whole Plant			√	
<i>Teramnus labialis</i>	Mashparni	Aerial parts			√	
<i>Terminalia arjuna</i>	Arjuna	Bark	√			√
<i>Terminalia bellirica</i>	Vibheetaki	Fruit	√			
<i>Terminalia chebula</i>	Hareetaki	Fruit	√			
<i>Tinospora cordifolia</i>	Guduchi	Stem	√			
<i>Tribulus terrestris</i>	Gokharu	Fruit				√
<i>Uraria picta</i>	Prishniparni	Aerial Parts			√	
<i>Valeriana jatamansi</i>	Tagar	Root			√	
<i>Vetiveria zizanioides</i>	Khash/Ushir	Root			√	
<i>Vigna triloba</i>	Mudgaparni	Aerial parts			√	
<i>Viola odorata / V.serpens</i>	Vanafsha	Flower				√
<i>Withania somnifera</i>	Ashwagandha	Roots	√			
<i>Woodfordia fruticosa</i>	Dhataki	Flowers	√			
<i>Zanthoxylum armatum</i>	Timru/Tejbal	Fruits			√	√
<i>Zingiber officinalis</i>	Sunthi/Adrak	Rhizome				√
<i>Zizyphus jujuba</i>	Vadari/Ber	Fruits	√			



*: Collection time may vary according to various geo-climatic conditions

Source: Dabur Research Foundation & TRAFFIC India, General guidelines for harvesting and processing Ayurvedic Medicinal Plants (AMP's)



Appendix V

Participants in the WHO Consultation on Good Field Collection Practices for Indian Medicinal Plants

1. Mr. B.S. Sajwan, Chief Executive Officer, National Medicinal Plants Board, Department of AYUSH, Ministry of Health and Family Welfare, Govt. of India, Chandralok Building, 36, Janpath, New Delhi- 110001.
2. Dr. P.P. Bhojvoid, The Energy Resources Institute (TERI), Darbari Seth Block. India Habitate, Centre complex, Lodhi Road, New Delhi-110003.
3. Dr. S.K. Pareek, Principal Scientist (Medicinal & Aromatic Plants), National Bureau of Plant Genetic Resources (NBPGR), Pusa Campus, ICAR, Pusa Campus, New Delhi-110012.
4. Dr. D.C. Katoch, National Consultant (Traditional Medicine and Homeopathy), WHO Country Office for India, Shri Ram Bhartiya Kala Kendra, 3rd Floor, 1, Copernicus Marg, New Delhi-110001.
5. Dr. P. Bhattacharya, Professor, Indian Institute of Forest Management (IIFM), P.B.- 357, Nehru Nagar, Bhopal- 462003, Madhya Pradesh.
6. Prof. V.K. Joshi, Dean, Faculty of Ayurveda, Institute of Medical Sciences and Department of Dravyaguna, Banaras Hindu University, Varanasi- 221005, Uttar Pradesh.
7. Dr. Rajendra Gupta, Retd. Scientist (M&AP), Indian Council of Agricultural Research (ICAR), B-1/46, Paschim Vihar, New Delhi- 110063.
8. Mr. Uma Kant, IFS, DIG, Ministry of Environment and Forest, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi-110003.
9. Dr. Rajbir Singh, IFS, DIG (Forest), Ministry of Environment and Forest, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi-110003.
10. Dr. S.K. Bhatia, Additional Commissioner (Horticulture), National Horticulture Mission (NHM), Department of Agriculture and Cooperation, Krishi Bhawan, New Delhi- 110001.
11. Dr. S.D. Singh, IFS, Regional Manager, Uttaranchal Van Vikas Nigam, Aranya Vikas Bhawan, 73, Nehru Road, Dehradun, Uttarakhand.
12. Dr. Navneesh Sharma, Agriculture & Processed Food Products Export Development Authority, NCUI Building, 3rd floor, 3-Siri Institutional area, Khel Gaon Marg, New Delhi-110016.
13. Dr. G.S. Goraya, IFS, Joint Director, Foundation for Revitalization of Local Health Traditions (FRLHT), 74/2, Jarakabande Kaval, P.O-Attur, Via- Yelahanka, Bangalore- 560064.
14. Dr. Rajendra Dobriyal, Principal Research Associate, Hindustan Research Centre and Unilever Research India, 64, Main Road, Whitefield, Bangalore-560066.



15. Dr. R.C. Uniyal, Deputy Director and Head, Amity Institute for Research and Studies, Amity University, Amity campus, "D" Block, Express highway, Sector -125, Noida- 201 303, Uttar Pradesh.
16. Dr. G.D. Bagchi, Scientist-F, Central Institute of Medicinal and Aromatic Plants (CIMAP), Council of Scientific and Industrial Research (CSIR), Kukrail Picnic Spot Road, P.O. CIMAP, Lucknow-226015.
17. Dr. J.P. Chaurasiya, Sr. Scientist, Planning Division, Council of Scientific and Industrial Research (CSIR), Anusandhan Bhawan, 2, Rafi Marg, New Delhi-110001.
18. Dr. G.P. Garg, Sr. Chief Chemist, Department of AYUSH, IRCS Building, Annexe, New Delhi-110001.
19. Dr. G.S. Rawat, Professor, Wild Life Institute of India, Chandrabani, Dehradun, Uttarakhand.
20. Dr. B.S. Negi, Asst. Commissioner (Horticulture), National Horticulture Mission (NHM), Department of Agriculture and Cooperation, Krishi Bhawan, New Delhi- 110001.
21. Dr. A. Raghu, Assistant Adviser (Ayurveda), Department of AYUSH, IRCS Annexe Building, New Delhi- 110001.
22. Dr. Tejbir Singh, Sr. Technical Officer (Horticulture), Indian Council of Agricultural Research (ICAR), Krishi Bhawan, New Delhi-110001.
23. Dr. A.K. Gupta, Sr. Consultant, Central Council for Research in Ayurveda and Siddha (CCRAS), 61-65, Institutional Area, D-Block, Janakpuri, New Delhi- 110058.
24. Dr. Bishnupriya Dhar, Research Officer, Central Council for Research in Ayurveda and Siddha (CCRAS), 61-65, Institutional Area, D-Block, Janakpuri, New Delhi- 110058.
25. Dr. S.K. Meher, Research Officer, Central Council for Research in Ayurveda and Siddha (CCRAS), 61-65, Institutional Area, D-Block, Janakpuri, New Delhi-110058.



References

1. Demand & Supply of Medicinal Plants, National Medicinal Plants Board & FRLHT, Bangalore.
2. WHO guidelines on good agricultural and collection practices (GACP) for medicinal plants, World Health Organization, Geneva, 2003.
3. Government of India Ministry of Health & Welfare. Schedule T: Good Manufacturing Practices (GMPs) for Ayurveda, Siddha and Unani Medicines. In: The Drugs and Cosmetics Act and Rules (as amended up through 30th June 2005. New Delhi: Department of Health, 2005.
4. Good manufacturing practices for pharmaceutical products: main principles. In: WHO Expert Committee on Specifications for Pharmaceutical Preparations, 37th Report (Technical Report Series No 908), World Health Organization, Geneva, 2003, 908.
5. Convention on Biological Diversity, 5th June, 1992.
6. Wong JLG, Thornber K, Baker N, Resources assessment of non-wood forest products, FAO Rome, Italy, 2001.
7. The Ayurvedic Pharmacopoeia of India, 5 Volumes, Ministry of Health and Family Welfare, Govt. of India, New Delhi, 1989-2005.
8. The Homoeopathic Pharmacopoeia of India, 8 Volumes, Ministry of Health and Family Welfare, Govt. of India, New Delhi, 1971-1990.
9. The Siddha Pharmacopoeia of India, Part I(1), Ministry of Health and Family Welfare, Govt. of India, New Delhi, 2007.
10. The Unani Pharmacopoeia of India, Part-I, Ministry of Health and Family Welfare, Govt. of India, New Delhi.
11. Indian Pharmacopoeia, Volume 3, Indian Pharmacopoeia Commission, Ghaziabad, 2007.
12. Indian herbal Pharmacopoeia, Revised Edition, Indian Drugs Manufacturers Association, Mumbai, 2002.
13. Quality Standards of Indian Medicinal Plants, 4 Volumes, Indian Council of Medical Research, New Delhi, 2003-2006.
14. Williamson Elizabeth (Ed.), Major Herbs of Ayurveda, Elsevier Health Sciences, 2002.
15. Hamilton A, Medicinal plants, conservation and livelihoods, Biodiversity and Conservation, 2004, 13, 1757-17.
16. International Standard for Sustainable Collection of Wild medicinal and Aromatic Plants (ISSC – MAPs): Medicinal Plants Specialist Group, 2007 MPSG/SSC/IUCN, WWF Germany, and TRAFFIC (BFN – Skripten 195).
17. Dobriyal, R.M., G.S. Singh, K.S. Rao and K.G. Saxena, Medicinal plant resources in Chhakinal watershed in the north-western Himalaya: traditional knowledge, economy and conservation. Journal of Herbs, Spices and Medicinal Plants, 1997, 5(1): 15-27.
18. Hamilton A, Resource assessment for sustainable harvesting of medicinal plants, Paper Presented at International Botanical Congress on Source to Shelf: Sustainable Supply Chain Management of Medicinal and Aromatic Plants, Vienna, 21-22 July, 2005.



Government of India

National Medicinal Plants Board
Department of AYUSH,
Ministry of Health and Family Welfare
Govt. of India

WHO country office for India, New Delhi

2009