

Inventorization of Commercially Exploited Herbal Drugs of Central Himalaya Used in Ayurvedic, Unani, Siddha and Homoeopathic Formulations

¹*Lalit Tiwari, ²Nitin Rai,
³Rajeev Kr. Sharma and
⁴P.C. Pande

1. Homoeopathic Pharmacopoeia
Laboratory, Kamla Nehru Nagar,
Ghaziabad-201002 (U.P.)

2. Department of Botany,
M.M.H. Collage,
Ghaziabad-201001 (U.P.)

3. Pharmacopoeial Laboratory for
Indian Medicine, Kamla Nehru Nagar,
Ghaziabad-201002 (U.P.)

4. Department of Botany,
S.S.J. Campus, Kumaun University,
Almora (Uttarakhand)

Abstract

Present inventory deals with 337 plant species, having commercial value in domestic and international market and their utilization in various systems of medicine like Ayurveda, Siddha, Unani, Homoeopathy and, proprietary medicine.

Key words: Medicinal Plants, Ayurveda, Siddha, Unani, Homoeopathy and, Proprietary Practices.

Introduction

The Himalayas have a great wealth of medicinal plants and traditional medicinal knowledge. The Central Himalayan Region covers the new state of Uttarakhand, which includes the major divisions of Kumaon and Garhwal. This region has played a significant role in the civilizational processes of Northern India. Through the millennia different tribes and people-Protoaustraloids, Mundas, Kiratas, Mongoloids, Indo-Aryans, Khasas, Sakas and others - have been coming in and leaving their signatures and producing a mosaic of cultures. The cultural groups of the Central Himalayan Region include the Kumaonis, Garhwalis, and tribes like Bhotias, Rajis, Tharus, Boxas, Jaunsarees, which have their own different cultures, traditions, dialects, customs, etc. Thus, the Central Himalayas provide excellent opportunities for studying the Traditional Knowledge Systems (Agrawal and Kharakwal, 1998).

Like other ancient people, the Himalayan people also utilized plants and plant products for medicine. These plants were not only traded internally but also exported. For example, Kuth (*Saussurea costus*) was exported to east as is mentioned in *Atharvaveda*. Ancient Ayurvedic authors described seven varieties of *Harad*; the last variety is *chetaki*, of Himalayan origin (Tiwari and Pande, 2004).

The Garhwali ethno-archaeological literature describes the importance of plants in medicine. According to this, one has to grind *singraph* (sulphate of mercury), *pipli* (roots of *Piper longum*) and purified *meetha bish* (rhizome of *Aconitum atrox*) in an equal ratio either with juice of *Citrus aurantifolia* or *Syzygium cumini* for three days. Then prepare its pills, each pill should weigh equal to the weight of one seed of green gram (*Vigna radiata*). This drug is taken either with honey and root powder of *Piper longum* to treat phthisis; and the extract of ginger (*Zingiber officinale*) is used for the treatment of dyspepsia, rheumatism and puerperal fever (Badoni, 1989-90).

*Author for correspondence

The Indian Himalayan region alone supports about 18,440 species of plants (Angiosperms: 8000 spp., Gymnosperms: 44 spp., Pteridophytes: 600 spp., Bryophytes: 1736 spp., Lichens: 1159 spp. and Fungi: 6900 spp.) of which about 45% have medicinal properties (Singh and Hajra, 1997). According to Samant *et al.* (1998) out of the total species of vascular plants, 1748 spp. has medicinal properties. Pande *et al.* (2006) documented total 1338 ethnomedicinal plants and 364 ethnoveterinary medicinal plants from Uttarakhand Himalayan region. Region supplied more than thousands of commercially important species for various purposes like food, fodder, timber, house hold goods, medicines, etc (Agnihotri *et al.*, 2012). Present study deals with the commercially important Himalayan medicinal plants and their status in various systems of medicine like Ayurveda, Siddha, Unani, Homoeopathy and, proprietary medicine.

Methodology

Extensive field cum literature survey were done during the period from 2009 to 2011 and commercial data regarding plants were obtained from the Indian local herbal markets like Kharibavri, New Delhi, Deharadun, Haridwar and Ramnagar, Uttarakhand (Rai *et al.*, 2011). Plants are arranged in alphabetical with family, followed by part used in various systems of medicines, vernacular names, trade name and plant status in Ayurveda, Siddha, Unani, Homoeopathy and proprietary practices (Table 1). The utility pattern of commercial exploited herbal drugs were ascertain with the help of official formularies and pharmacopoeia of respective systems (Anonymous, 1971-2006, 1978, 1981, 1984, 1992, 1999, 2000, 2001, 2006, 2008 & 2011). The use in patent and proprietary medicines are literature survey based with the help of Ayurvedic Drug Index and therapeutic indices of different Ayurvedic, Unani, Siddha and Homoeopathic drug manufacturing companies (Anonymous, 2009).

Results and Discussion

Present study deals with a total of 337 medicinal plants which are having commercial potential in various domestic and International markets. Out of 337 plants, 290 plant species are used in Ayurvedic system of medicine, 122 plant species are used in Unani system of medicine, 115 plant species are used in Siddha system of medicine, 106 plant species are used in Homoeopathic system of medicines and 98 plant species are used under the category of proprietary medicines by various drug companies and traditional healers (Figure 1).

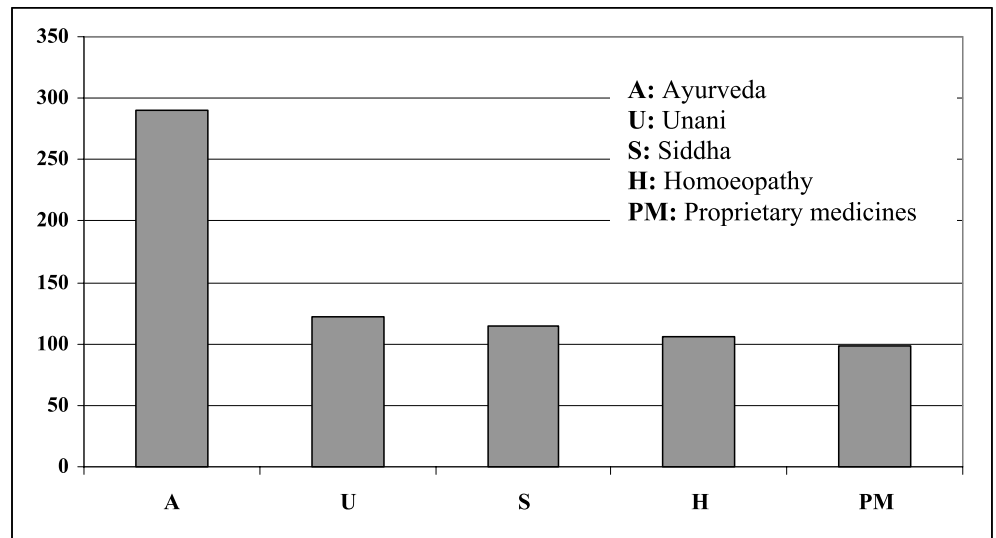


Fig. 1: Utility pattern of herbal drugs from the region in Ayurvedic, Unani, Siddha, Homoeopathic and Proprietary medicines

Of these, 24 plants species are widely used in all system of medicine: *Acorus calamus* L., *Aegle marmelos* (L.) Correa, *Allium cepa* L., *Allium sativum* L., *Asparagus racemosus* Willd., *Azadirachta indica* A. Juss., *Caesalpinia bonduc* (L.) Roxb., *Calotropis gigantea* (L.) R. Br., *Curcuma domestica* Vallars, *Eclipta prostrata* (L.) L., *Foeniculum vulgare* Mill., *Mangifera indica* L., *Mentha arvensis* L., *Ocimum basilicum* L., *Ocimum tenuiflorum* L., *Phyllanthus emblica* L., *Punica granatum* L., *Solanum nigrum* L., *Terminalia bellirica* (Gaertn.) Roxb., *Terminalia chebula* Retz., *Tinospora cordifolia* (Willd.) Miers ex Hook. f. Thoms., *Tribulus terrestris* L., *Withania somnifera* (L.) Dunal., *Zingiber officinale* Rosc. Among the different parts and products of plants used as a drug sources for various system of medicines, fruits have the highest number of species (60 species), followed by roots of 58 species; leaves of 57 species; seeds of 56 species; whole plant of 55 species; bark of 26 species; flowers of 15 species; rhizome of 11 species; stem and wood of 10 species; tubers of 8 species; resin of 4 species and bulbs of 3 species (Figure 2).

Among the genera, *Solanum* (6 spp.) had the highest number of commercially potential species, followed by *Aconitum*, *Allium*, *Citrus*, *Ocimum* and *Terminalia* (all 4 species.); *Acacia*, *Amaranthus*, *Artemisia*, *Asparagus*, *Bauhinia*, *Cassia*, *Cucumis*, *Curcuma*, *Datura*, *Dioscorea*, *Ficus*, *Prunus* and *Sida* (3 species); *Angelica*, *Berberis*, *Bergenia*, *Brassica*, *Calotropis*, *Cinnamomum*, *Clerodendrum*, *Dalbergia*, *Hedychium*, *Ipomoea*, *Leucas*, *Luffa*, *Mentha*, *Phyllanthus*, *Pinus*, *Polygonatum*, *Premna*, *Rubus*, *Smilax*, *Swertia* and *Valeriana* (all 2 species).

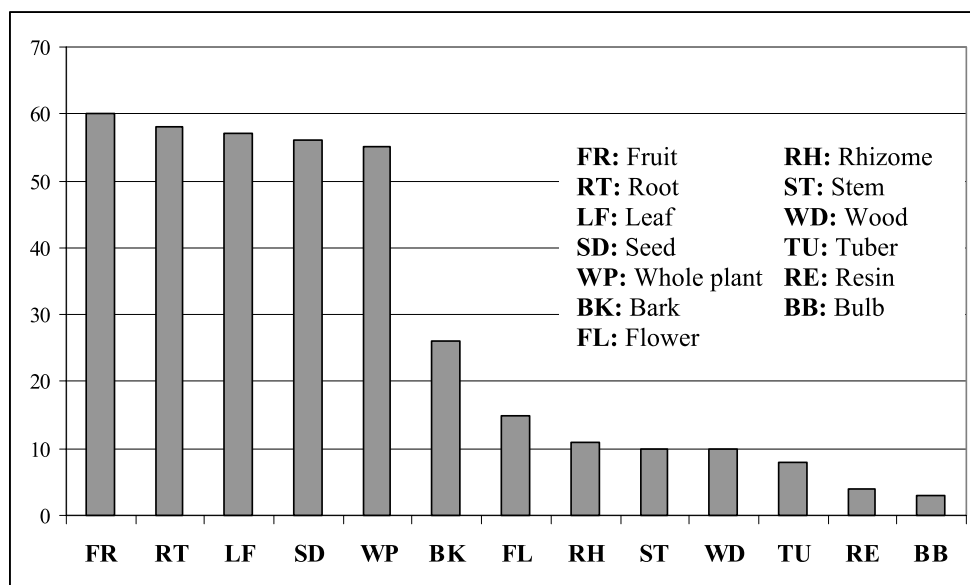


Fig. 2: Morphological parts of plant used in Ayurvedic, Unani, Siddha, Homoeopathic and Proprietary medicines

The need of genuine and quality raw material is always a concern of pharmaceutical industry due to resourcing of herbal drugs from commercial sources. To fetch the demand of commerce, drugs are collected from wild sources by the unskilled or semiskilled workers. Collection by unskilled or semiskilled workers, nonavailability or shortage of prescribes plant species and unscrupulous trade practices herbal drugs are prone to adulteration and substitution which ultimately impact the quality of medicines (Sharma & Dutt, 2010, Sharma *et al.*, 2011). The manpower engaged in the trade of herbal drugs should have an exposure to the norms regulations and good collection and storage practices.

Sl. No.	Trade Name	Name of Plant	Family	Vernacular Name	Part Used	System of medicine				
						A	S	U	H	PM
1	Aak	<i>Calotropis gigantea</i> (L.) R. Br.	Asclepiadaceae	Aankha	RT	+	+	+	+	+
2	Aak	<i>Calotropis procera</i> (Ait.) R. Br.	Asclepiadaceae	Aak	RT	+				
3	Aalu	<i>Solanum tuberosum</i> L.	Solanaceae	Aalu	ST	+			+	
4	Aaru	<i>Prunus persica</i> (L.) Betsch.	Rosaceae	Aru	FR	+			+	
5	Adrak	<i>Zingiber officinale</i> Rosc.	Zingiberaceae	Adrak	RH	+	+	+	+	+

Sl. No.	Trade Name	Name of Plant	Family	Vernacular Name	Part Used	System of medicine				
						A	S	U	H	PM
6	Afsanteen	<i>Artemisia absinthium</i> L.	Asteraceae	-----	LF	+		+		
7	Agniby	<i>Premna latifolia</i> Roxb.	Verbenaceae	Aganyo	ST	+				
8	Ain, Sadga fale	<i>Terminalia alata</i> Heyne ex Roth.	Combretaceae	Asin	BK	+				
9	Ajain	<i>Alstonia scholaris</i> (L.) R. Br.	Apocynaceae	Ajan	LF, BK	+			+	
10	Ajmoda	<i>Apium graveolens</i> L.	Apiaceae	Shalari	SD	+		+	+	+
11	Ajwain	<i>Trachyspermum ammi</i> (L.) Sprague	Apiaceae	Ajwain	SD	+	+	+		+
12	Akasbel	<i>Cuscuta reflexa</i> Roxb.	Cuscutaceae	Agasilair	WP	+		+	+	
13	Akhroth	<i>Juglans regia</i> L.	Juglandaceae	Akhod	FR, BK	+		+	+	+
14	Alsi	<i>Linum usitatissimum</i> L.	Linaceae	Alsi	SD	+		+	+	+
15	Ama haldi	<i>Curcuma amada</i> Roxb.	Zingiberaceae	Biada	RH	+				
16	Amaltaash	<i>Cassia fistula</i> L.	Caesalpiniaceae	Kirala	FR	+	+	+	+	+
17	Amari	<i>Antidesma acidum</i> Retz.	Euphorbiaceae	Aml	LF					
18	Amba saal	<i>Mangifera indica</i> L.	Anacardiaceae	Am	FR, BK	+	+	+	+	+
19	Ambika	<i>Tamarindus indica</i> L.	Caesalpiniaceae	Imli	FR	+	+	+		
20	Amesh	<i>Hippophae rhamnoides</i> L.	Elaeagnaceae	Amesh	FR					
21	Amra	<i>Spondias pinnata</i> (L.f.) Kurz	Anacardiaceae	Amara	FR	+				
22	Amritdhara-ghas	<i>Tanacetum dolichophyllum</i> (Kitam.) Kitam.	Asteraceae	Guggal	WP					
23	Amrood	<i>Psidium guajava</i> L.	Myrtaceae	Amrood	FR	+				
24	Amrul	<i>Oxalis corniculata</i> L.	Oxalidaceae	Chalmora	WP	+	+			
25	Anaar	<i>Punica granatum</i> L.	Punicaceae	Darim	FR	+	+	+	+	+
26	Anantmul	<i>Hemidesmus indicus</i> (L.) R. Br.	Asclepiadaceae	Sariba	RT	+			+	+
27	Anjeer	<i>Ficus hispida</i> L. f.	Moraceae	Totmila	FR	+				

Sl. No.	Trade Name	Name of Plant	Family	Vernacular Name	Part Used	System of medicine				
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28	Ankol	<i>Alangium salvifolium</i> (L. f.) Wang.	Alangiaceae	Kuilu	RT	+				
29	Apamarga	<i>Achyranthes aspera</i> L.	Amaranthaceae	Chirchira	WP	+	+		+	+
30	Aparajit	<i>Clitoria ternatea</i> L.	Fabaceae	-----	RT	+				+
31	Aralu	<i>Oroxylum indicum</i> (L.) Venten	Bignoniaceae	Farkat	FR	+				
32	Arandi	<i>Ricinus communis</i> L.	Euphorbiaceae	Arandi	SD, LF	+	+	+	+	
33	Arhar	<i>Cajanus cajan</i> (L.) Millsp.	Fabaceae	Arhar	SD	+				
34	Arjun	<i>Terminalia arjuna</i> (Roxb. ex DC.) Wight & Arnott.	Combretaceae	Khorasari	BK	+			+	+
35	Asetu	<i>Colebrookea oppositifolia</i> Sm.	Lamiaceae	Aseti	LF					
36	Ashoka	<i>Saraca asoca</i> (Roxb.) deWilde	Caesalpiniaceae	Ashok	BK	+			+	
37	Ashta	<i>Bauhinia recemosa</i> Lam.	Caesalpiniaceae	Jhinghora	BK	+		+		
38	Aswgandha	<i>Withania somnifera</i> (L.) Dunal.	Solanaceae	Asgandh	RT	+	+	+	+	+
39	Atibala	<i>Abutilon indicum</i> (L.) Sweet	Malvaceae	Kanghe	WP	+	+	+		
40	Atibala	<i>Sida rhombifolia</i> L.	Malvaceae	Bariara	WP	+				
41	Atibisha	<i>Aconitum heterophyllum</i> Wall. ex Royle	Ranunculaceae	Atis	RT	+	+	+		+
42	Ativisha	<i>Aconitum violaceum</i> Jacquem. ex Stapf.	Ranunculaceae	Dhudi-attes	RT					
43	Awala	<i>Phyllanthus emblica</i> L.	Euphorbiaceae	Awala	FR	+	+	+	+	+
44	Babool	<i>Acacia nilotica</i> (L.) Delile	Mimosaceae	Baboor	ST	+	+	+		+
45	Bach	<i>Acorus calamus</i> L.	Araceae	Boja	RH	+	+	+	+	+
46	Bahad	<i>Terminalia bellirica</i> (Gaertn.) Roxb.	Combretaceae	Arurh	FR	+	+	+	+	+
47	Bahrangi	<i>Clerodendrum serratum</i> (L.) Moon	Verbenaceae	Ban-bakri	LF	+	+	+		

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48	Baigan	<i>Solanum melongena</i> L.	Solanaceae	Baigan	FR	+	+			
49	Bajrandi	<i>Potentilla fulgens</i> Wall. ex Hook. f.	Rosaceae	Akarada	RT	+				
50	Bakhara	<i>Premna barbata</i> Wall. ex Schauer	Verbenaceae	Bakhara	RT	+				
51	Bakul	<i>Mimusops elngi</i> L.	Sapotaceae	Maulsari	BK, LF	+				
52	Bala	<i>Sida acuta</i> Burm. f.	Malvaceae	Karenti	WP	+				
53	Balam kheera	<i>Kigelia africana</i> (Lam.) Benth.	Bignoniaceae	Balam-khira	FR					
54	Balu	<i>Sida cordifolia</i> L.	Malvaceae	Balu	WP	+				+
55	Ban kakadi	<i>Podophyllum hexandrum</i> Royle	Podophyllaceae	Ghee	FR	+				
56	Banafsa	<i>Viola pilosa</i> Blume.	Violaceae	Banfsa	WP	+				+
57	Banj	<i>Quercus leucotrichophora</i> A. Camus	Fagaceae	Banj	ST, BK	+		+		
58	Bans	<i>Dendrocalamus strictus</i> (Roxb.) Nees	Poaceae	Bans	ST	+		+		
59	Bantulasi	<i>Origanum vulgare</i> L.	Lamiaceae	Bantulsi	LF	+		+	+	
60	Bargad	<i>Ficus benghalensis</i> L.	Moraceae	Bar	WP	+	+	+	+	
61	Bel	<i>Aegle marmelos</i> (L.) Correa	Rutaceae	Bel	FR, LF	+	+	+	+	+
62	Ber	<i>Ziziphus mauritiana</i> Lam.	Rhamnaceae	Ber	FR	+		+		
63	Beshram	<i>Ipomoea carnea</i> Jacq.	Convolvulaceae	Behaya	BK					
64	Bhang	<i>Cannabis sativa</i> L.	Cannabaceae	Bhang	SD, RE	+	+	+	+	
65	Bhangeera	<i>Perilla frutescens</i> (L.) Britt.	Lamiaceae	Bhangira	SD					+
66	Bhargi	<i>Clerodendrum indicum</i> (L.) Kuntze	Verbenaceae	Chigori	LF	+				
67	Bhilao	<i>Semecarpus anacardium</i> L. f.	Anacardiaceae	Bhilwa	SD, RT	+	+	+	+	
68	Bhindi	<i>Abelmoschus esculentus</i> (L.) Moench.	Malvaceae	Bhindi	FR	+				
69	Bhojpatra	<i>Betula utilis</i> D. Don	Betulaceae	Bhooj	BK	+				

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70	Bhringraaj	<i>Eclipta prostrata</i> (L.) L.	Asteraceae	Bhangru	WP	+	+	+	+	+
71	Brahmi	<i>Bacopa monnieri</i> (L.) Wettst.	Scrophulariaceae	Pan-bhrahmi	WP	+	+		+	+
72	Buransh	<i>Rhododendron arboreum</i> Sm.	Ericaceae	Burans	FL	+				+
73	Buyi awla	<i>Embelia ribes</i> Burm. f.	Myrsinaceae	Buyi awla	WP	+	+		+	
74	Chai	<i>Camellia sinensis</i> (L.) Kuntze	Theaceae	Chai	LF	+			+	
75	Chakotra	<i>Citrus grandis</i> (L.) Osbeck.	Rutaceae	Chakotra	FR					
76	Chaksu	<i>Cassia absus</i> L.	Caesalpiniaceae	Chaksu	SD			+		
77	Chameli	<i>Jasminum humile</i> L.	Oleaceae	Pili-chameli	FL, SD	+				
78	Champaka	<i>Michelia champaca</i> L.	Magnoliaceae	Champa	WP	+	+			
79	Chana	<i>Cicer arietinum</i> L.	Fabaceae	Chana	SD	+		+		
80	Chandani	<i>Nerium indicum</i> Mill.	Apocynaceae	Kaner	LF, RT	+	+	+		
81	Chandraian	<i>Paeonia emodi</i> Wall. ex Royle	Paeoniaceae	Chandraian	RT	+				
82	Chandra-soor	<i>Lepidium sativum</i> L.	Brassicaceae	Chandrasur	SD	+	+	+		
83	Charota	<i>Cassia tora</i> L.	Caesalpiniaceae	Banarh	SD	+	+			
84	Chir	<i>Pinus roxburghii</i> Sarg.	Pinaceae	Chir	WD, RE, FR	+				
85	Chir	<i>Pinus wallichiana</i> A.B. Jackson	Pinaceae	Kail	WD, RE, FR					
86	Chiraita	<i>Swertia angustifolia</i> Buch.-Ham. ex D. Don	Gentianaceae	Chiraitu	WP	+				
87	Chiraita	<i>Swertia chirayita</i> (Roxb. ex Fleming) Karsten	Gentianaceae	Chirayita	WP	+		+	+	+
88	Chitrak mool	<i>Plumbago zeylanica</i> L.	Plumbaginaceae	Chitrak	RT	+	+	+		
89	Chop cheeni	<i>Smilax aspera</i> L.	Smilacaceae	Kukur dara	RT	+				
90	Chop cheeni	<i>Smilax zeylanica</i> L.	Smilacaceae	Bhitura	RT	+				
91	Chota tarbuj	<i>Citrullus colocynthis</i> (L.) Schrad. ex Eckl. & Zeyh.	Cucurbitaceae	Chota-tarbooj	FR	+	+	+	+	

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						A	S	U	H	PM
92	Choti elaichi	<i>Elettaria cardamomum</i> (L.) Maton.	Zingiberaceae	Elaechi	FR	+	+	+		+
93	Chukandar	<i>Beta vulgaris</i> L.	Chenopodiaceae	Chukander	RT	+			+	
94	Chura	<i>Aesandra butyracea</i> (Roxb.) Baehni	Sapotaceae	Chiura	SD					+
95	Chuyimuyi	<i>Mimosa pudica</i> L.	Mimosaceae	-----	WP	+				
96	Dachini	<i>Cinnamomum tamala</i> Nees ex Eberm.	Lauraceae	Kirkiria	LF, BK	+	+			
97	Daisaw paris	<i>Paris polyphylla</i> Sm.	Liliaceae	Satwa	RT	+				
98	Dandelion	<i>Taraxacum officinale</i> Weber	Asteraceae	Dudhli	RT	+			+	
99	Danti	<i>Baliospermum montanum</i> (Willd.) Muell.-Arg.	Euphorbiaceae	Jungali-jamalgota	SD, RT	+				
100	Daru haldi	<i>Berberis aristata</i> DC.	Berberidaceae	Kilmora	RT	+	+	+		+
101	Daru haldi	<i>Berberis asiatica</i> Roxb. ex DC.	Berberidaceae	Kilmora	RT	+				+
102	Datura	<i>Datura innoxia</i> Mill.	Solanaceae	Dhatura	SD	+	+			
103	Datura	<i>Datura stramonium</i> L.	Solanaceae	Dattura	SD	+		+	+	
104	Devdangar	<i>Cedrus deodara</i> (Roxb.) Loud.	Pinaceae	Devdar	WD	+	+	+		
105	Dhak ke phool	<i>Butea monosperma</i> (Lam.) Taub.	Fabaceae	Dhak	LF, FL	+	+	+		
106	Dhan	<i>Oryza sativa</i> L.	Poaceae	Dhan	SD	+	+	+		+
107	Dhaniya	<i>Coriandrum sativum</i> L.	Apiaceae	Dhanyiya	SD	+	+	+	+	
108	Dhyati	<i>Woodfordia floribunda</i> Salisb.	Lythraceae	Dhaulti	FLs	+	+			
109	Dolu	<i>Rheum australe</i> D. Don	Polygonaceae	Archa	RT	+		+		
110	Drek	<i>Melia azedarach</i> L.	Meliaceae	Bakain	FR	+		+		
111	Dronpuspi	<i>Leucas plukenetii</i> (Roth.) Spreng	Lamiaceae	-----	WP	+			+	
112	Dukhnirvisi	<i>Cissampelos pareira</i> L.	Menispermaceae	Kali-bel	LF	+	+			+

Sl. No.	Trade Name	Name of Plant	Family	Vernacular Name	Part Used	System of medicine				
						A	S	U	H	PM
113	Durva	<i>Cynodon dactylon</i> (L.) Pers.	Poaceae	Dub	WP	+	+		+	+
114	Eucalyptus	<i>Eucalyptus globulus</i> Labill.	Myrtaceae	Lyptus	LF	+			+	
115	Gajar	<i>Daucus carota</i> L.	Apiaceae	Gajar	RT	+		+		
116	Gambhari	<i>Gmelina arborea</i> Roxb.	Verbenaceae	Gumbhar	RT	+				
117	Gandhraj	<i>Heracleum candicans</i> Wall. ex DC.	Apiaceae	-----	SD					
118	Gandrain	<i>Angelica archangelica</i> L.	Apiaceae	Choru	RT	+				
119	Gandrain	<i>Angelica glauca</i> Edgew.	Apiaceae	Choru	RT	+				+
120	Ganna	<i>Saccharum officinarum</i> L.	Poaceae	Ganna	ST	+	+			
121	Gatti pipla	<i>Piper longum</i> L.	Piperaceae	Pipli	FR	+	+	+		+
122	Genhu	<i>Triticum aestivum</i> L.	Poaceae	Gehun	SD	+		+		
123	Gheekwar	<i>Aloe barbadensis</i> Mill.	Liliaceae	Patkwanr	LF	+	+	+		+
124	Giloy	<i>Tinospora cordifolia</i> (Willd.) Miers ex Hook. f. Thoms.	Menispermaceae	Gurg	ST	+	+	+	+	+
125	Ginnko	<i>Ginkgo biloba</i> L.	Ginkgoaceae	-----	LF				+	
126	Gokharu	<i>Tribulus terrestris</i> L.	Zygophyllaceae	Gokhru	WP	+	+	+	+	+
127	Gorakh-mundi	<i>Sphaeranthus indicus</i> L.	Asteraceae	-----	WP	+	+			
128	Gular	<i>Ficus racemosa</i> L.	Moraceae	Gulur	WP	+	+	+		
129	Gunj	<i>Abrus precatorius</i> L.	Fabaceae	Ratti	SD	+	+		+	+
130	Hajari	<i>Tagetes erecta</i> L.	Asteraceae	Hajari	FL	+				
131	Haldi	<i>Curcuma domestica</i> Vallars	Zingiberaceae	Haldi	RH	+	+	+	+	+
132	Hansraaj	<i>Adiantum capillus-veneris</i> L.	Adiantaceae	Kalichari	WP	+		+		
133	Harda	<i>Terminalia chebula</i> Retz.	Combretaceae	Hrar	FR	+	+	+	+	+
134	Harjod	<i>Cissus quadrangularis</i> L.	Vitaceae	Harjor	ST	+	+			

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						A	S	U	H	PM
135	Heeng	<i>Ferula jaeschkeana</i> Vatke	Apiaceae	Jangali-heeng	RE	+				+
136	Hisalu	<i>Rubus ellipticus</i> Sm.	Rosaceae	Hisalu	FR, RT					
137	Ingar	<i>Barringtonia acutangula</i> (L.) Gaertn.	Barringtoniaceae	Parsut	BK, RT, SD	+	+			
138	Iremeda	<i>Acacia farnesiana</i> (L.) Willd.	Mimosaceae	Vilyati-kikar	ST	+				
139	Isabgool	<i>Plantago major</i> L.	Plantagin-aceae	Lahuriya	LF	+		+	+	
140	Isharmul	<i>Aristolochia indica</i> L.	Aristolochiaceae	-----	LF, RT	+				
141	Jal jamni	<i>Cocculus hirsutus</i> (L.) Diels	Menispermaceae	Jal-jamini	LF	+				
142	Jalgali kuth	<i>Arctium lappa</i> L.	Asteraceae	Kut	RT	+			+	+
143	Jambu	<i>Allium consanguineum</i> Kunth	Alliaceae	Jambu	LF	+				
144	Jambu	<i>Allium wallichii</i> Kunth.	Alliaceae	Jambu-dhun	LF	+				
145	Jamir	<i>Citrus hystrix</i> DC.	Rutaceae	Jamir	FR					+
146	Jamun	<i>Phoenix humilis</i> Royle ex Becc.	Arecaceae	Thakal	FR	+				
147	Jamun	<i>Syzygium cumini</i> (L.) Skeels	Myrtaceae	Jamun	FR	+	+	+		+
148	Jangali arandi	<i>Jatropha curcas</i> L.	Euphorbiaceae	Pahari-arand	SD	+			+	
149	Jarmala	<i>Phyllanthus amarus</i> Schumach. & Thonn.	Euphorbiaceae	Jarmala	WP	+	+			
150	Jaswanti	<i>Hibiscus rosasinensis</i> L.	Malvaceae	Gurhal	FL	+		+		+
151	Jatamansi	<i>Nardostachys grandiflora</i> DC.	Valerianaceae	Mansi	RT	+	+	+		+
152	Jau	<i>Hordeum vulgare</i> L.	Poaceae	Jau	SD	+		+		
153	Jhinghan	<i>Lannea coromandelica</i> (Houtt.) Merr.	Anacardiaceae	Kalmina	LF BK	+	+			
154	Jivanti	<i>Trema orientalis</i> (L.) Blume	Ulmaceae	Jivan	LF, BK	+				
155	Kachnaar	<i>Bauhinia variegata</i> L.	Caesalpiniaceae	Kwairare	WP	+				

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156	Kakadi	<i>Cucumis melo</i> L. var. <i>ultissimus</i> Duth. & Full.	Cucurbitaceae	Kakari	FR	+				
157	Kakarsingi	<i>Pistacia chinensis</i> Mill. ssp. <i>integerrima</i> (Stewart) Rech. f.	Anacardiaceae	Kakarsingi	WP	+	+			
158	Kakudsingi	<i>Garuga pinnata</i> Roxb.	Burseraceae	Titmar	BK					
159	Kala bansha	<i>Barleria prionitis</i> L.	Acanthaceae	Kala-bansa	WP	+	+			+
160	Kala hisalu	<i>Rubus niveus</i> Thunb.	Rosaceae	Kala-hisalu	FR, RT					
161	Kala jeera	<i>Carum carvi</i> L.	Apiaceae	Thoya	SD	+		+	+	+
162	Kala jeera	<i>Vernonia cinerea</i> (L.) Less.	Asteraceae	Kalgira, Kaljiri	SD	+				
163	Kala-datura	<i>Datura fastuosa</i> L.	Solanaceae	Kala-dahtura	SD	+	+		+	
164	Kalam	<i>Mitragyna parvifolia</i> (Roxb.) Korth.	Rubiaceae	Phaldu	BK, LF	+				
165	Kali musali	<i>Curculigo orchioides</i> Gaertn.	Hypoxidaceae	Talmuli	RH	+	+	+		+
166	Kali sinki	<i>Lygodium flexuosum</i> (L.) Sw.	Lygodiaceae	Kali-sinki	RH					
167	Kali tulasi	<i>Ocimum basilicum</i> L.	Lamiaceae	Marua	LF	+	+	+	+	+
168	Kaligewar	<i>Bupleurum falcatum</i> L.	Apiaceae	Janglee-jeera	SD					
169	Kalihari	<i>Gloriosa superba</i> L.	Liliaceae	Langhi	SD	+				
170	Kalmegh	<i>Andrographis paniculata</i> (Burm.f.) Wall. ex Nees	Acanthaceae	Kalmegh	WP	+	+		+	+
171	Kamal phhol	<i>Nelumbo nucifera</i> Gaertn.	Nelumbonaceae	Kamal	FL	+	+			
172	Kanchan	<i>Mucuna pruriens</i> (L.) DC.	Fabaceae	Kanchan	RT, SD	+	+			
173	Kandali phal	<i>Crinum asiaticum</i> L.	Amaryllidaceae	Kanwal	BB	+				
174	Kandaru	<i>Coccinia grandis</i> (L.) Voigt.	Cucurbitaceae	Kanduri	WP	+	+		+	
175	Kanphuti	<i>Cardiospermum halicacabum</i> L.	Sapindaceae	Kanphuti	WP	+	+	+	+	

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176	Kanthi buti	<i>Leucas lanata</i> Benth.	Lamiaceae	Pipswas	WP					
177	Kanthkari	<i>Solanum virginianum</i> L.	Solanaceae	Bhupendri	FR, RT	+	+	+		
178	Kaphal	<i>Duchesnea indica</i> (Andr.) Focke	Rosaceae	Kaphlya	LF					
179	Kapur kachari	<i>Hedychium acuminatum</i> (Rosc.) Wall.	Zingiberaceae	Kapor-kachri	RH					
180	Kapur kachari	<i>Hedychium spicatum</i> Buch.-Ham. ex Sm.	Zingiberaceae	Ban-haldi	RH	+				+
181	Karanja	<i>Pongamia pinnata</i> (L.) Pierre	Fabaceae	Karanjua	SD	+	+			
182	Karela	<i>Momordica charantia</i> L.	Cucurbitaceae	Karela	FR	+			+	+
183	Karo patta	<i>Murraya koenigii</i> (L.) Spreng.	Rutaceae	Gandela	Leaf	+				
184	Karru	<i>Gentiana kurroo</i> Royle	Gentianaceae	Karru	RT	+		+		
185	Kasni	<i>Cichorium intybus</i> L.	Asteraceae	Kasni	SD	+			+	
186	Katphal	<i>Myrica esculenta</i> Buch.-Ham. ex D. Don	Myricaceae	Kaphal	BK, FR	+		+		+
187	Kela	<i>Musa paradisiaca</i> L. (<i>M. sapientum</i> L.)	Musaceae	Kela	FR	+	+	+	+	
188	Keol	<i>Costus speciosus</i> (Koen. ex Retz.) Sm.	Zingiberaceae	Keol	RT	+				+
189	Kesar	<i>Crocus sativus</i> L.	Iridaceae	Kesar	FL	+	+	+	+	
190	Khair	<i>Acacia catechu</i> (L.f.) Willd.	Mimosaceae	Khair	ST	+	+			
191	Khas	<i>Vetiveria zizanioides</i> (L.) Nash.	Poaceae	Khas, Veeran-mool	LF	+	+	+		
192	Kheera	<i>Cucumis sativus</i> L.	Cucurbitaceae	Ailaru	FR	+	+	+		
193	Khirmi	<i>Manilkara hexandra</i> (Roxb.) Dubard	Sapotaceae	Khirmi	BK, FL	+				
194	Khokali	<i>Acalypha indica</i> L.	Euphorbiaceae	Kuppi	WP		+		+	+
195	Khumani	<i>Prunus armeniaca</i> L.	Rosaceae	Chullu	FR	+				

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196	Kirman ova	<i>Artemisia maritima</i> L.	Asteraceae	Safed-purca	LF	+		+	+	
197	Kirmari	<i>Chenopodium ambrosioides</i> L.	Chenopodiaceae	Kirmari	WP					
198	Krishnjraka	<i>Nigella sativa</i> L.	Ranunculaceae	-----	SD	+	+	+		
199	Kuchla	<i>Strychnos nuxvomica</i> L.	Loganiaceae	Kuchla	SD	+		+	+	+
200	Kulthi	<i>Macrotyloma uniflorum</i> (Lam.) Verdc.	Fabaceae	Gahat	SD	+				
201	Kumbra	<i>Benincasa hispida</i> (Thunb.) Cogn.	Cucurbitaceae	Bhujailu	FR	+	+	+		
202	Kunja	<i>Rosa brunonii</i> Lindl.	Rosaceae	Kunj	FL	+				+
203	Kurchi	<i>Holarrhena antidysenterica</i> Wall. ex A. DC.	Apocynaceae	Kuri-kurchi	BK	+		+	+	+
204	Kushnya	<i>Caltha palustris</i> L.	Ranunculaceae	Kushnya	RT				+	
205	Kutaki	<i>Picrorhiza kurrooa</i> Royle ex Benth.	Scrophulariaceae	Kutki	RT	+	+	+		
206	Kuth	<i>Saussurea costus</i> (Falc.) Lipschitz	Asteraceae	Kut	RT	+	+			
207	Lahsun	<i>Allium sativum</i> L.	Alliaceae	Lahsun	BB	+	+	+	+	+
208	Langthang	<i>Hyoscyamus niger</i> L.	Solanaceae	Langthang	WP	+	+	+	+	
209	Lata karanj	<i>Caesalpinia bonduc</i> (L.) Roxb.	Caesalpiniaceae	Kanja	SD	+	+	+	+	+
210	Lodhra	<i>Symplocos racemosa</i> Roxb.	Symplocaceae	Lodhra	BK	+		+		
211	Maduwa	<i>Eleusine coracana</i> (L.) Gaertn.	Poaceae	Mandua	SD	+				
212	Mahamenda	<i>Polygonatum cirrhifolium</i> (Wall.) Royle	Liliaceae	Salam-misri	RT	+				
213	Mahamenda	<i>Polygonatum vetricillatum</i> (L.) All.	Liliaceae	Deoringal	RT	+				
214	Mahanimba	<i>Ailanthus excelsa</i> Roxb.	Simaroubaceae	Arua	LF, BK	+				
215	Mahawa	<i>Madhuca longifolia</i> (J.Koenig) MacBride	Sapotaceae	Mahawa	WP	+	+			

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216	Maljangni	<i>Celastrus paniculatus</i> Willd.	Celastraceae	Kaunya	BK, SD	+	+	+		
217	Malu	<i>Bauhinia vahlii</i> Wight & Arnott.	Caesalpiniaceae	Malu	LF	+				
218	Mamiri	<i>Thalictrum foliolosum</i> DC.	Ranunculaceae	Mamiri	RT	+		+		
219	Manduk parni	<i>Centella asiatica</i> (L.) Urban	Apiaceae	Bhrahmi	WP	+	+		+	+
220	Manjeetha	<i>Rubia manjith</i> Roxb. ex Fleming	Rubiaceae	Manjeeth	RT	+	+	+		
221	Marod fail	<i>Helicteres isora</i> L.	Sterculiaceae	Marorphali	FR	+	+	+		
222	Masoor	<i>Lens culinaris</i> Medik.	Fabaceae	Masoor	SD	+		+		
223	Matar	<i>Pisum sativum</i> L.	Fabaceae	Kalaon	FR	+		+		
224	Mehandi	<i>Lawsonia inermis</i> L.	Lythraceae	Mehadi	LF	+	+	+		+
225	Methi	<i>Trigonella foenum-graecum</i> L.	Fabaceae	Methi	SD	+	+	+		+
226	Mircha	<i>Capsicum annuum</i> L.	Solanaceae	Mircha	FR	+			+	
227	Mokoy	<i>Solanum nigrum</i> L.	Solanaceae	Makoi	WP	+	+	+	+	+
228	Morning glory	<i>Ipomoea nil</i> (L.) Roth	Convolvulaceae	Mothya	SD	+				
229	Morphankhi	<i>Thuja orientalis</i> L.	Cupressaceae	Morpankhi	LF					
230	Muli	<i>Raphanus sativus</i> L.	Brassicaceae	Muli	RT	+	+		+	
231	Munakha	<i>Vitis vinifera</i> L.	Vitaceae	Angoor	FR	+	+	+		+
232	Nagar motha	<i>Cyperus rotundus</i> L.	Cyperaceae	Moth	RT	+	+	+		
233	Neelkanthi	<i>Ajuga bracteosa</i> Wall. ex Benth.	Lamiaceae	Ratpatia	WP					+
234	Neemba	<i>Azadirachta indica</i> A. Juss.	Meliaceae	Neem	BK, LF	+	+	+	+	+
235	Nimbu	<i>Citrus aurantium</i> L.	Rutaceae	Nimbu	FR	+				
236	Nimbu	<i>Citrus medica</i> L.	Rutaceae	Nimbu	FR	+		+		
237	Nirgundi	<i>Vitex negundo</i> L.	Verbenaceae	Shinwali	WP	+	+	+		+
238	Ogal	<i>Fagopyrum esculentum</i> (L.) Moench.	Polygonaceae	Palthi	SD				+	

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239	Paanfaali	<i>Citrus limon</i> (L.) Burm.f.	Rutaceae	Neebu	FR	+				
240	Painya	<i>Prunus cerasoides</i> D.Don	Rosaceae	Paya	FR	+				
241	Palaash	<i>Juniperus communis</i> L.	Cupressaceae	Pallas	LF	+		+	+	
242	Pangar	<i>Castanea sativa</i> Mill.	Fagaceae	Pangar	FR				+	
243	Paniala	<i>Flacourtia jangomas</i> (Lour.) Raeusch.	Flacourtiaceae	Jamuna	BK, FL	+				
244	Papeeta	<i>Carica papaya</i> L.	Caricaceae	Papita	FR	+		+	+	
245	Parijaat	<i>Nyctanthes arbor-tristis</i> L.	Oleaceae	Harsingar	LF	+			+	
246	Parslane	<i>Portulaca oleracea</i> L.	Portulacaceae	Kulfa	WP	+				
247	Parval	<i>Trichosanthes dioica</i> Roxb.	Cucurbitaceae	Palwal	FR	+				
248	Pashanbhed	<i>Bergenia ciliata</i> (Royle) Raizada	Saxifragaceae	Pathar-chat	RH	+				+
249	Pashanbhed	<i>Bergenia ligulata</i> (Wall.) Engler	Saxifragaceae	Silphoda	RH	+				
250	Pattar choor	<i>Coleus barbatus</i> (Andr.) Benth.	Lamiaceae	Jautil	RT					+
251	Phuliya	<i>Hypericum perforatum</i> L.	Hypericaceae	Choli-phulya	WP				+	
252	Pitapapada	<i>Fumaria indica</i> (Hausk.) Pugsley	Fumariaceae	Pithpapra	WP	+		+	+	
253	Piyali	<i>Buchanania lanzan</i> Spreng.	Anacardiaceae	Piyal	SD	+	+			+
254	Podina	<i>Mentha piperita</i> L.	Lamiaceae	Podina	LF				+	
255	Poi	<i>Basella alba</i> L.	Basellaceae	Poy	LF	+				
256	Popular	<i>Populus ciliata</i> Wall.	Salicaceae	Shyan	WD					
257	Posta	<i>Papaver somniferum</i> L.	Papaveraceae	Afim	SD	+	+	+		
258	Potato tree	<i>Solanum erianthum</i> D.Don	Solanaceae	Akra	FR	+				
259	Priyangu	<i>Callicarpa macrophylla</i> Vahl	Verbenaceae	Daiyya	SD	+				
260	Pudina	<i>Mentha arvensis</i> L.	Lamiaceae	Paudina	LF	+	+	+	+	+
261	Punernava	<i>Boerhavia diffusa</i> L.	Nyctaginaceae	Punryaru	WP	+	+		+	+

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262	Pyaj	<i>Allium cepa</i> L.	Alliaceae	Pyaj	BB	+	+	+	+	+
263	Rai	<i>Brassica juncea</i> (L.) Czern. & Coss	Brassicaceae	Rai	SD	+				
264	Raitung	<i>Rhus parviflora</i> Roxb.	Anacardiaceae	Tang	LF	+		+		
265	Ram bansh	<i>Agave americana</i> L.	Agavaceae	Ram-bansh	LF	+			+	
266	Ram dana	<i>Amaranthus caudatus</i> L.	Amaranthaceae	Kidari-chua	SD					
267	Ram dana	<i>Amaranthus tricolor</i> L.	Amaranthaceae	Chulai	SD, LF	+				
268	Ram-tulsi	<i>Ocimum gratissimum</i> L.	Lamiaceae	Ram-tulasi	LF	+			+	
269	Rasna	<i>Pluchea lanceolata</i> (DC.) C.B. Clarke	Asteraceae	-----	WP	+				
270	Rat rani	<i>Cestrum nocturnum</i> L.	Solanaceae	Rat-ki-rani	FL					
271	Rattan joth	<i>Arnebia benthamii</i> (Wall. ex G. Don) I.M. Johnston	Boraginaceae	Laljari	RT	+				+
272	Reetha	<i>Sapindus mukorossi</i> Gaertn.	Sapindaceae	Ritha	FR	+				+
273	Ridhi, Varidhi	<i>Habenaria intermedia</i> D.Don	Orchidaceae	Ridhi-bidhi	WP	+				
274	Rohini	<i>Mallotus philippensis</i> (Lam.) Muell.-Arg.	Euphorbiaceae	Rohini	FR	+		+	+	
275	Rojmari	<i>Achillea millefolium</i> L.	Asteraceae	Gangrain	WP					
276	Rookhi	<i>Megacarpaea polyandra</i> Benth.	Brassicaceae	Barmoola	LF, RT					+
277	Rosha	<i>Cymbopogon martinii</i> (Roxb.) W. Watson	Poaceae	Piriya-ghas	LF	+				
278	Saal	<i>Shorea robusta</i> Roxb. ex Gaertn.f.	Dipterocarpaceae	Kororal	WD	+	+			
279	Saal parni	<i>Desmodium gangeticum</i> (L.) DC.	Fabaceae	Salpalnu	LF	+	+		+	+
280	Sadabahaar	<i>Catharanthus roseus</i> (L.) G. Don	Apocynaceae	Sada-bahar	LF	+			+	

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281	Safed moosli	<i>Chlorophytum tuberosum</i> Baker	Liliaceae	Safed-moosali	TU	+				+
282	Sahtut	<i>Morus alba</i> L.	Moraceae	Tooth	FR	+				
283	Salam panja	<i>Dactylorhiza hatagirea</i> (D.Don) Soo.	Orchidaceae	Hattazari	TU	+				+
284	Salammishri	<i>Litsea monopetala</i> (Roxb.) Pers.	Lauraceae	Katmara	BK	+				
285	Sankhpuspi	<i>Evolvulus alsinoides</i> L.	Convolvulaceae	Sankha-pushpi	WP	+		+		+
286	Sareefa	<i>Annona squamosa</i> L.	Annonaceae	Sitaphal	FR	+				
287	Sarpgandha	<i>Rauvolfia serpentina</i> (L.) Benth. ex Kurz	Apocynaceae	Sarpagandha	RT	+			+	+
288	Sarson	<i>Brassica campestris</i> L.	Brassicaceae	Sarson	SD	+		+		
289	Satavari	<i>Asclepias curassavica</i> L.	Asclepiadaceae	Lalma	RT	+			+	+
290	Satavari	<i>Asparagus curillus</i> Buch.-Ham. ex Roxb.	Liliaceae	Jhiran	TU	+				
291	Satavari	<i>Asparagus filicinus</i> Buch.-Ham. ex D. Don	Liliaceae	Jhirni	TU	+				
292	Satavari	<i>Asparagus racemosus</i> Willd.	Liliaceae	Kairuwa	TU	+	+	+	+	+
293	Sathjalani	<i>Ainsliaea aptera</i> DC.	Asteraceae	Karu-buti	RT					
294	Satyanasi	<i>Argemone mexicana</i> L.	Papaveraceae	Satyanasi	WP	+			+	
295	Saunf	<i>Foeniculum vulgare</i> Mill.	Apiaceae	Sanuf	SD	+	+	+	+	+
296	Seb	<i>Pyrus malus</i> L.	Rosaceae	Seb	FR					
297	Semal	<i>Bombax ceiba</i> L.	Bombacaceae	Semar	FL	+	+			
298	Shisham	<i>Dalbergia sissoo</i> Roxb.	Fabaceae	Shisham	WD	+		+		
299	Shishav	<i>Dalbergia latifolia</i> Roxb.	Fabaceae	Shisham	WD	+				
300	Siras	<i>Albizia lebeck</i> (L.) Benth.	Mimosaceae	Siras	WP	+	+			+
301	Sitafal	<i>Cucurbita maxima</i> Duch. ex Lam.	Cucurbitaceae	Kaddu	FR	+		+	+	

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302	Soya	<i>Glycine max</i> (L.) Merr.	Fabaceae	Soyabeen	SD					
303	Suraj mukhi	<i>Helianthus annuus</i> L.	Asteraceae	Surajmukhi	SD	+			+	
304	Tadiras	<i>Tectona grandis</i> L.f.	Verbenaceae	Saigaun	WD	+				
305	Tagar	<i>Valeriana hardwickii</i> Wall. ex Roxb.	Valerianaceae	Nahani	RT	+				+
306	Tagar	<i>Valeriana jatamansi</i> Jones	Valerianaceae	Samewa	RT	+		+		
307	Talimkhana	<i>Hygrophila auriculata</i> (Schumach.) Heine	Acanthaceae	Talimkhana	WP	+				
308	Talishpatra	<i>Abies spectabilis</i> (D. Don) Mirle.	Pinaceae	Ragu	LF	+				
309	Tamatar	<i>Lycopersicon lycopersicum</i> (L.) Karsten	Solanaceae	Tamatar	FR					+
310	Tanbaku	<i>Nicotiana tabacum</i> L.	Solanaceae	Tamakhu	LF	+		+	+	
311	Tarun	<i>Dioscorea belophylla</i> Voigh.	Dioscoreaceae	Tairu	TU	+				
312	Tarun	<i>Dioscorea deltoidea</i> Wall. ex Griseb.	Dioscoreaceae	Tairu	TU					
313	Tez patta	<i>Cinnamomum zeylanicum</i> Nees	Lauraceae	Tez paat	LF	+		+	+	+
314	Thavanam	<i>Artemisia nilagirica</i> (C.B. Clarke) Pamp.	Asteraceae	Kunjo	WP	+		+	+	
315	Thuner	<i>Taxus baccata</i> L. subsp. <i>wallichiana</i> (Zucc.) Pilger	Taxaceae	Thuner	LF	+	+		+	
316	Thungplam	<i>Trewia nudiflora</i> L.	Euphorbiaceae	Tumari	RT	+				
317	Til	<i>Sesamum orientale</i> L.	Pedaliaceae	Til	SD	+	+	+		+
318	Tilpuspi	<i>Digitalis purpurea</i> L.	Scrophulariaceae	-----	LF				+	+
319	Timaru	<i>Zanthoxylum armatum</i> DC.	Rutaceae	Timbru	SD	+		+		+

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320	Tit-baigun	<i>Solanum torvum</i> Swartz	Solanaceae	-----	WP	+				
321	Toon	<i>Toona ciliata</i> Roem.	Meliaceae	Tun	WD					
322	Tulasi	<i>Ocimum canum</i> Sims.	Lamiaceae	Tulsi	LF	+			+	
323	Tulsi	<i>Ocimum tenuiflorum</i> L.	Lamiaceae	Tulasi	LF	+	+	+	+	+
324	Turayi	<i>Luffa acutangula</i> (L.) Roxb.	Cucurbitaceae	Turayi	FR	+	+		+	
325	Turayi	<i>Luffa aegyptiaca</i> Mill.	Cucurbitaceae	Toral	FR	+				
326	Tut jadi	<i>Ephedra gerardiana</i> Wall. ex Stapf.	Ephedraceae	Tut-gamtha	WP	+			+	
327	Uteesh	<i>Alnus nepalensis</i> D. Don	Betulaceae	Utees	WD	+				
328	Van ajvain	<i>Thymus linearis</i> Benth.	Lamiaceae	Van-ajwain	WP			+		
329	Van haldi	<i>Curcuma aromatica</i> Salisb.	Zingiberaceae	Vanhaldi	RH	+				
330	Van kakadi	<i>Cucumis hardwickii</i> Royle	Cucurbitaceae	Elaroo	FR					
331	Varahikand	<i>Dioscorea bulbifera</i> L.	Dioscoreaceae	Gethi	TU	+				
332	Vasaka	<i>Justicia adhatoda</i> L.	Acanthaceae	Bansu	LF	+		+	+	+
333	Vatsnabha	<i>Aconitum balfourii</i> Stapf.	Ranunculaceae	Mithu	RT	+				+
334	Vidarikand	<i>Pueraria TUosa</i> (Roxb. ex Willd.) DC.	Fabaceae	Siralu	RT	+				
335	Vish	<i>Aconitum ferox</i> Wall. ex Ser.	Ranunculaceae	Meetha-bish	RT	+	+		+	+
336	Zeera	<i>Cuminum cyminum</i> L.	Apiaceae	Zeera	SD	+	+			+
337	Zufah yabis	<i>Hyssopus officinalis</i> L.	Lamiaceae	-----	WP	+		+		

Abbreviations: A: Ayurveda; BB: Bulb; BK: Bark; FL: Flower; FR: Fruit; H: Homoeopathy; LF: Leaf; PM: Proprietary medicines; RH: Rhizome; RE: Resin; RT: Root; S: Siddha; SD: Seed; ST: Stem; TU: Tuber; WD: Wood; WP: Whole plant; U: Unani.

Plate - 1



Dried roots of *Asparagus racemosus* Willd.



Dried bark of *Betula utilis* D. Don



Dried roots of *Chlorophytum tuberosum* Baker



Dried tuber of *Dactylorhiza hatagirea* (D. Don) Soo.



Dried root of *Rheum australe* D. Don



Dried leaf of *Nicotiana tabacum* L.



Dried leaf of *Nardostachys grandiflora* DC.

Plate - 2



Locally storage of dried medicinal plants



A Proprietary medical practitioner in Almora district, Uttarakhand



A view of proprietary medicines shop



A view of rode side pharmacy



Lady harvesting the seeds of *Aconitum heterophyllum* Wall. ex Royle

Plate - 3



Cutting the collected roots of *Rheum australe* D.Don for drying



Wild growth of *Aconitum balfourii* Stapf. in natural habitat



Ajuga bracteosa Wall. ex Benth.



Bombax ceiba L.



Catharanthus roseus (L.) G. Don



Rosa brunonii Lindl.

Plate - 4



Chlorophytum tuberosum Baker



Morus alba L.



Plumbago zeylanica L.



Arnebia benthamii (Wall. ex G. Don)
I.M. Johnston

References

- Anonymous, 1971-2006. Homoeopathic Pharmacopoeia of India (Vol. 1-9th). Govt. of India, Ministry of Health & Family Welfare, New Delhi.
- Anonymous, 1978. The Ayurvedic Formulary of India, Part-I, (English ed.) Govt. of India, Ministry of Health & Family Welfare, New Delhi.
- Anonymous, 1981. National Formulary of Unani Medicine, Part-I, (English ed.), Govt. of India, Ministry of Health & Family Welfare, New Delhi.
- Anonymous, 1984. Siddha Formulary of India, Part-I, (Tamil ed.), Govt. of India, Ministry of Health & Family Welfare, New Delhi.
- Anonymous, 1992. Siddha Formulary of India, Part-I, (English ed.), Govt. of India, Ministry of Health & Family Welfare, New Delhi
- Anonymous, 1999. National Formulary of Unani Medicine, Part-II, (English ed.), Govt. of India, Ministry of Health & Family Welfare, New Delhi.
- Anonymous, 2000. The Ayurvedic Formulary of India, Part-II, (English ed.) Govt. of India, Ministry of Health & Family Welfare, New Delhi.
- Anonymous, 2001. National Formulary of Unani Medicine, Part-III, (English ed.), Govt. of India, Ministry of Health & Family Welfare, New Delhi.
- Anonymous, 2006. National Formulary of Unani Medicine, Part-IV (English ed.), Govt. of India, Ministry of Health & Family Welfare, New Delhi.
- Anonymous, 2008. National Formulary of Unani Medicine, Part-V (English ed.), Govt. of India, Ministry of Health & Family Welfare, New Delhi.
- Anonymous, 2009. Ayurvedline.: Ayurvedic Drug Index. Bangalore.
- Anonymous, 2011. The Siddha Formulary of India, Part-II, (Tamil ed.) Govt. of India, Ministry of Health & Family Welfare, New Delhi.
- Agnihotri, A. K., Tiwari, Lalit, Rai, Nitin, Sharma, Rajeev Kr. and Sikarwar, R. L. S., 2012. Traditional healthcare uses of wild plant prevalent in Haldwani Forest area, Central Himalaya. Research & Reviews: Journal of Pharmaceutical Science and Technology. (In press)
- Agrawal, D. P. and J. S. Kharakwal, 1998. Central Himalayas: An Archaeological, Linguistic and Culural Synthesis. Aryan Books International, New Delhi.
- Badoni, A. K., 1989-1990. Remark on the High Altitudinal Medicinal Plants of Garhwal Himalaya. *Himalayan Studies and Regional Development* 13&14: 37-45.
- Rai, Nitin, Rajeev Kr. Sharma, Sunil Dutt and V. K. Singh. 2011. Market survey of commercially exploited Unani herbal drugs: available, reserouces and quality assurance. *Hippocreatic Journal of Unani Medicine* 6(4): 97-123.
- Pande, P. C., Lalit Tiwari and H. C. Pande. 2006. *Folk-Medicine and Aromatic*

- Plants of Uttarakhand*. Bishen Singh and Mahendra Pal Singh, Dehra Dun.
- Singh, D. K. and P. K. Hajra. 1997. Floristic diversity. In *Biodiversity Status in the Himalaya*. (Ed. Gujral). British Council, New Delhi, pp. 23-38.
- Samant, S. S., U. Dhar and L. M. S. Palni, 1998. *Medicinal Plants of Indian Himalaya: Diversity, Distribution, Potential Values*. Gyanodaya Prakashan, Nainital.
- Tiwari, Lalit and P. C. Pande. 2005. Himalayan Medicinal Plants in Ayurvedic Text: with references to Sushrut Samhita. *Journal of History of Science and Medicine* **20**(1-2): 45-60.
- Sharma, Rajeev Kr. and Dutt Sunil, 2010. Herbal drug standardization and appraisal of modern scientific methods. *In: Ayurveda in Transition* (Eds. T. S. Muraliodharan and M. R. Ragav Variier), pp. 185-264
- Sharma, Rajeev Kr., Dutt, Sunil and Rai, Nitin, 2011. Quality issue in respect of adulteration in herbal ingredients used in Ayurvedic formulation. *Ind. J. Pharm. Herb. Res.* 1(1): 18-25.

