

Documentation of Plant diversity Conserved in Botanical Gardens of Makwanpur, Nepal

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Abstract

This study documents the plants conserved in three Botanical Gardens (BGs) of Makwanpur district. All record plants are in living condition in field and herbarium also prepared and deposited in KATH herbarium. Brindavan BG, Mountain BG and Tistung BG comprise 302 species, 190 species and 138 species respectively. Total 510 plant species were recorded from 391 genera and 130 families. Among them 409 medicinal, 74 ornamental, 35 threatened and 12 protected plant species. BGs are playing important role in conservation of genetic resources of local as well national flora of Nepal.

Keywords: Botanical Garden, Makwanpur, Brindavan, Daman, Tistung, ex-situ, in-situ conservation

Introduction

Among the 11 Botanical Gardens (BGs) of Nepal, three Botanical Gardens (Brindavan BG, Mountain BG and Tistung BG) are in Makwanpur district. This district lies between 84°41' to 84°35' E longitude and 27°21' to 27°24' N latitude), cover total area of 2390 sq km. Its altitude ranges from 166m (at Hathidhunga, Raigaun) to 2584m (at Simbhanjyang, Daman), (Singh, 2003). Due to wide variation in altitude, it harbors plants of tropical, sub-tropical, temperate and sub-alpine vegetation zones (Stainton, 1972). So, three BGs were established for the *ex-situ* and *in-situ* conservation of pteridophytes, gymnosperms, orchids, succulents, cactus, medicinal, ornamental, rare, endangered, threatened and protected plants. The main purpose of these BGs is to carry scientific research, collection of herbarium, identification of plants, technology development and educational awareness as well as conservation of genetic resources (Singh, 2003, Lamichhane et al, 2014). Brindavan BG was established in 2019 BS as a medicinal herbal garden under the Department of Plant Resources formerly named as Department of Medicinal Plants. It is located at an altitude of 350-450 m in tropical zone of Churiya range of Central Nepal, Hetauda. It is surrounded by Sal (*Shorea robusta* Gaertn.) forest and deciduous riverine forest. Similarly, Mountain BG established in 2022 BS, is located at an altitude

of 2320 m in Daman area, and is surrounded by Pine, Oak and Rhododendron forest. It harbors generally plants of high mountains with Temperate and Subalpine climate. Likely, Tistung BG was established in 2022 BS, and is located at an altitude of 1900m in Tistung area, and is surrounded by Pine forest (DPRO, 2014, Chapagain et al, 2015)

Materials and Methods

Plants were recorded from three BGs, which were collected from different parts of Makwanpur district and some other places of Nepal (DPRO, 2014, Chapagain et al, 2015). Some ornamental species were exotic too. All plants are in living condition in field and herbarium also prepared and deposited in KATH Herbarium, Godawari. Plants were identified and their uses recorded with help of related literatures (Stainton, 1988, Polunin and Stainton, 1987, Shrestha and Joshi, 1996, Manandhar, 2002, Baral and Kurmi, 2006, Bhattarai and Ghimire, 2006, DPR, 2007, Raskoti, 2009).

Result and Discussion

Diversity

The study recorded 510 plant species which belongs to 391 genera and 130 families (Appendix-1). Among them 218 (42.7%) are herb, 114 (22.4%) are shrub, 152 (29.8%) are tree and 26 (5.1%) are

climber in habit. Out of them 409 species are medicinal (170 herb, 87 shrub, 132 tree and 20 climber) (Figure-1), 74 ornamental species, 10 invasive species and 27 other species. Among the three BGs, Brindavan BG, harbors 302 species, Mountain BG, harbors 190 species and Tistung BG, harbors 138 species of plants (Appendix 1). Among below listed plants various parts are used for different medicinal and other purposes viz. 110 sp. for leaves, 96 sp. roots, 66 sp. flowers, 55 sp. fruits, 25 sp. stems, 83 sp. bark, 11 sp. rhizome, 21 sp. seeds, 70 sp. whole plants and some other parts (Appendix-1).

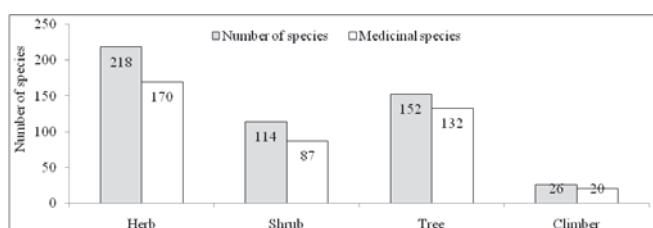


Figure 1: Number of species and medicinal plants on the basis of life form

Among the 130 families, Asteraceae is the largest family with 38 species, which followed by Fabaceae

(35 sp.), Orchidaceae (22 sp.), Euphorbiaceae (18 sp.) and so on (Appendix-1 and Figure-2).

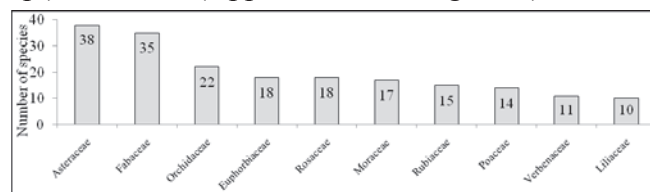


Figure 2: Top 10 dominant families in BGs

Threaten Category

According to IUCN and CAMP (2012) category, 60 plant species were recorded as threatened medicinal and aromatic plants in Nepal (DPR, 2012). Among the total 35 threatened species enlisted in these three BGs, 11 species are vulnerable, 6 CITES listed, 6 endangered, 5 threatened and 3 rare and 12 protected (out of 18 protected species), (Appendix-2, Figure-3).

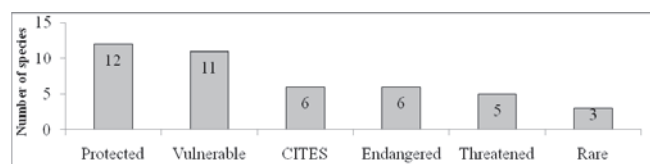


Figure 3: Status of threatened plants in BGs

Table 1: Medicinal plants prioritized for research and development

S.N.	Scientific name	नेपाली नाम	Nepali name	Family
1	<i>Aconitum spicatum</i> (Bruhl) Stapf	विष	Bikh	Ranunculaceae
2	<i>Acorus calamus</i> L.	बोझो	Bojho	Araceae
3	<i>Asparagus racemosus</i> Willd. *	कुरीलो	Kurilo	Asparagaceae
4	<i>Azadirachta indica</i> A. Juss.	नीम	Neem	Meliaceae
5	<i>Bergenia ciliata</i> (Haw.) Sternb.	पाषाण भेद	Pakhan Ved	Saxifragaceae
6	<i>Cinnamomum glaucescens</i> (Nees.) Nand.Mazz*	सुगन्ध कोकिला	Sugandhakokila	Lauraceae
7	<i>Cinnamomum tamala</i> (Buch.-Ham.) Nees & Eberm	तेजपात	Tejpat	Lauraceae
8	<i>Dioscorea deltoidea</i> Wall. ex Griseb.	बन तरुल	Ban tarul	Dioscoreaceae
9	<i>Gaultheria fragrantissima</i> Wall.	धसिंगरे	Dhasingre	Ericaceae
10	<i>Juglans regia</i> L.	ओखर	Okhar	Juglandaceae
11	Lichens	भ्याउ	Jhyau	
12	<i>Morchella conica</i> Pers.	गुच्छी च्याउ	Guchchhi chyau	Helvellaceae
13	<i>Phyllanthus emblica</i> L.	अमला	Amala	Euphorbiaceae
14	<i>Piper longum</i> L.*	पिपला	Pipla	Piperaceae
15	<i>Rauvolfia serpentina</i> (L.) Benth ex Kurz*	सर्पगन्धा	Sarpagandha	Apocynaceae
16	<i>Rheum australe</i> D. Don	पदम चाल	Padam chal	Polygonaceae
17	<i>Rubia manjith</i> Roxb. ex Fleming	मजिठो	Majitho	Rubiaceae
18	<i>Sapindus mukorossi</i> Gaertn.	रिठ्ठा	Riththa	Sapindaceae
19	<i>Swertia chirayita</i> (Roxb. ex Fleming) Karsten*	चिराइतो	Chiraito	Gentianaceae
20	<i>Tagetes minuta</i> L.	जंगली सयपत्री	Janjali sayapatri	Asteraceae
21	<i>Taxus wallichiana</i> Zucc.*	लौठ सल्ला	Lauth sallo	Taxaceae
22	<i>Tinospora sinensis</i> (Lour.) Merr.*	गुर्जो	Gurjo	Menispermaceae
23	<i>Valeriana jatamansii</i> Jones*	सुगन्धवाल	Sugandhawala	Valerianaceae
24	<i>Zanthoxylum armatum</i> DC.*	टिमुर	Timur	Rutaceae

(*-prioritized for agro-technology development)

Prioritized medicinal plants

DPR (2011) has prioritized 30 medicinal plants for research and development in Nepal. These 3 BGs of Makwanpur comprises 24 species among them (Table-1). Similarly, out of 12 species prioritized for agro-technology development, 9 species are conserved and promoted for research in these BGs (Table-1).

Conclusion

Since its establishment, Brindavan BG has been used to conserve genetic resources of more than 302 plant species. Similarly, Mountain BG, Daman and Tistung BG have conserved 190 and 138 species respectively. Among the total 510 species conserved, 409 species medicinal, 74 species ornamental, 35 species threatened, 12 protected species were conserved and promoted for agro-medicinal farming. BGs have been practiced for the *in-situ* and *ex-situ* conservation techniques for conservation of rare, endangered, economically important medicinal and ornamental plants. It has conducted trainings for agro-farming of medicinal plants and researches on aromatic plants.

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Appendix 1: Plants of Brindavan, Mountain and Tistung Botanical Garden of Makwanpur

S.N.	Scientific name	Nepali name	Family	Lf	Use	Part	BGs
1	<i>Abelmoschus moschatus</i> Medik.	Latakasturi	Malvaceae	S	Med	Wh	B
2	<i>Abies spectabilis</i> (D. Don) Mirb.	Talis patra	Pinaceae	T	Med	St	MT
3	<i>Abrus precatorius</i> L.	Ratigedi	Fabaceae	C	Med	Sd	B
4	<i>Acacia catechu</i> (L. f.) Willd.	Khayar	Fabaceae	T	Med	St	B
5	<i>Acacia nilotica</i> (L.) Willd. ex Delile	Babul	Fabaceae	S	Med	Fr	B
6	<i>Acacia rugata</i> (Lam.) Voigt	Sikakai	Fabaceae	S	Med	Fr	B
7	<i>Acalypha hispida</i> Blume	Red cattail	Euphorbiaceae	S	Orn	Fl	B
8	<i>Acer pectinatum</i> Wall. ex Pax.	Firfire	Aceraceae	T	Tim	St	M
9	<i>Achyranthus aspera</i> L.	Datiwan	Amaranthaceae	H	Med	Rt	B
10	<i>Achyranthus bidentata</i> Blume	Dattiwan	Amaranthaceae	H	Med	Rt	B
11	<i>Aconitum spicatum</i> (Bruhl) Stapf	Bikh	Ranunculaceae	H	Med	Rt	MT
12	<i>Aconogonum molle</i> (D. Don) H. Hara	Thotne	Polygonaceae	H	Med	St	M
13	<i>Acorus calamus</i> L.	Bojho	Araceae	H	Med	Rh	MT
14	<i>Adina cordifolia</i> (Willd. ex Roxb.) Benth. & Hook. f. ex Brandis	Karam	Rubiaceae	T	Med	Br	B
15	<i>Aegle marmelos</i> (L.) Correa	Bel	Rutaceae	T	Med	Br, Fr	B
16	<i>Aeschynanthus hookeri</i> C.B. Clarke		Gesneriaceae	H	Orn	Fl	T
17	<i>Aesculus indica</i> (Colebr. ex Cambess.) Hook.	Lekh pangro	Hippocastanaceae	T	Med	Sd	MT
18	<i>Agapanthus africanus</i> (L.) Hoffmanns.	Lily	Liliaceae	H	Orn	Fl	BM
19	<i>Agave americana</i> L.	Kettuke	Agavaceae	S	Med	Lf	BMT
20	<i>Agave cantula</i> Roxb.	Kettuki	Agavaceae	S	Med	Lf	BMT
21	<i>Ageratum conyzoides</i> L.	Gandhe	Asteraceae	H	Med	Lf	B
22	<i>Ageratum houstonianum</i> Mill.	Nilo gandhe	Asteraceae	H	Med	Lf	B
23	<i>Ageretina adenophora</i> (Spreng.) King & H. Rob.	Banmara	Asteraceae	H	Med	Lf	BT
24	<i>Ainsliaea latifolia</i> (D. Don) Sch. Bip.	Sahadeva/	Asteraceae	H	Med	Fl	M
25	<i>Albizia chinensis</i> (Osbeck.) Merr.	Kalo siris	Fabaceae	T	Med	Br	B
26	<i>Albizia julibrissin</i> Durazz.	Patke siris	Fabaceae	T	Med	Br	B
27	<i>Albizia procera</i> (Roxb.) Benth.	Seto siris	Fabaceae	T	Tim	St	B
28	<i>Allium wallichii</i> Kunth	Banlasun	Amaryllidaceae	H	Med	Bulb	T
29	<i>Alnus nepalensis</i> D. Don	Utis	Betulaceae	T	Med	Br	MT
30	<i>Aloe vera</i> (L.) Burm. f.	Ghiu kumari	Liliaceae	H	Med	Lf	BMT
31	<i>Alpinia bractea</i> Rosc.	Alpinea	Zingiberaceae	H	Med	Rh	B
32	<i>Alstonia scholaris</i> (L.) R. Br.	Chhatiwan	Apocynaceae	T	Med	Br	B
33	<i>Alternanthera sessilis</i> (L.) DC.	Vringaraj	Amaranthaceae	H	Med	Lf	B
34	<i>Amaranthus lividus</i> L.	Latte saag	Amaranthaceae	H	Med	Lf	B
35	<i>Amaranthus spinosus</i> L.	Lhude	Amaranthaceae	H	Med	Rt	B
36	<i>Amaranthus viridis</i> L.	Latte saag	Amaranthaceae	H	Med	Lf	B
37	<i>Amomum subulatum</i> Roxb.	Alainchi	Zingiberaceae	H	Med	Fr	MT
38	<i>Anagallis arvensis</i> L.	Armale	Primulaceae	H	Med	Wh	B
39	<i>Anaphalis busua</i> (Buch.-Ham. ex Don) DC.	Buki ful	Asteraceae	H	Med	Fl	M
40	<i>Anaphalis contorta</i> (D. Don.) Hook. f.	Buki ful	Asteraceae	H	Med	Fl	M
41	<i>Anaphalis margaritacea</i> (L.) Benth.	Lekh buki	Asteraceae	H	Med	Lf	M
42	<i>Anaphalis triplinervis</i> (Sims.) C.B. Clarke	Lekh buki	Asteraceae	H	Med	Fl	M
43	<i>Andrographis paniculata</i> (Burm. f.) Nees	Kalomegh	Acanthaceae	H	Med	Wh	B
44	<i>Anemone vitifolia</i> Buch.-Ham ex DC.	Kangarate	Ranunculaceae	H	Med	Rt	M
45	<i>Annona squamosa</i> L.	Sarifa	Annonaceae	T	Med	Rt	B
46	<i>Anthocephalus chinensis</i> (Lam.) A. Rich. ex Walp.	Kadam	Rubiaceae	T	Med	Br	B
47	<i>Anthogonium gracile</i> Wall. ex Lindl	Vui sunkhari	Orchidaceae	H	Orn	Fl	T
48	<i>Araucaria bidwillii</i> Hook.	Kade salla	Araucariaceae	T	Orn	Wh	M
49	<i>Araucaria columnaris</i> J.R. Forst. Hook.	Kade salla	Araucariaceae	T	Orn	Wh	B
50	<i>Ardisia solanacea</i> Roxb.	Damai fal	Myrsinaceae	S	Med	Wh	B
51	<i>Areca catechu</i> L.	Supari	Arecaceae	T	Med	Fr	B
52	<i>Argemone maxicana</i> L.	Thakal	Papaveraceae	H	Med	Rt, Lf	B
53	<i>Arisaema costatum</i> (Wall.) Mart.	Sarpa makai	Araceae	H	Med	Tuber	M
54	<i>Arisaema turtosum</i> (Wall.) Schott	Sarpa makai	Araceae	H	Med	Tuber	MT
55	<i>Aristolochia indica</i> L.	Isharmul	Aristolochiaceae	C	Med	Rt, Lf	B
56	<i>Artemisia dubia</i> Wall. ex Besser	Tite pati	Asteraceae	H	Med	Lf	MT
57	<i>Artemisia indica</i> Willd.	Tite pati	Asteraceae	H	Med	Lf	B

58	<i>Artocarpus heterophyllus</i> Lam.	Katahar	Moraceae	T	Med	Rt, Br	B
59	<i>Artocarpus lakoocha</i> Wall. ex Roxb.	Badahar	Moraceae	T	Med	Latex	B
60	<i>Arundinaria intermedia</i> Munro	Nigalo	Poaceae	H	Fod	St	B
61	<i>Asclepias curassavica</i> L.	Khursani ful	Asclepiadaceae	H	Med	Rt, Lf	B
62	<i>Asparagus filicinus</i> Buch.-Ham ex D. Don	Ban kurilo	Asparagaceae	H	Med	Rt	B
63	<i>Asparagus racemosus</i> Willd.	Kurilo	Asparagaceae	S	Med	Rt	MT
64	<i>Astilbe rivularis</i> Buch.-Ham. ex D. Don	Thulo okhati	Saxifragaceae	H	Med	Rt	MT
65	<i>Atropa belladonna</i> L.	Beladona	Solanaceae	H	Med	Rt	M
66	<i>Azadirachta indica</i> A. Juss.	Neem	Meliaceae	T	Med	Lf	B
67	<i>Azalea</i> sp.	Ajelia	Ericaceae	S	Orn	Fl	BMT
68	<i>Barleria strigosa</i> Willd	Ban urdherya	Acanthaceae	H	Med	Rt, Lf	B
69	<i>Bauhinia purpurea</i> L.	Tanki	Fabaceae	T	Med	Br	T
70	<i>Bauhinia vahlii</i> Wight & Arn.	Vorla	Fabaceae	C	Med	Fr, Rt	B
71	<i>Bauhinia variegata</i> L.	Koiralo	Fabaceae	T	Med	Br	B
72	<i>Begonia picta</i> Smith.	Magar kache	Begoniaceae	H	Med	Wh	B
73	<i>Begonia rubella</i> Buch.-Ham. ex D. Don	Magar kache	Begoniaceae	H	Med	Wh	M
74	<i>Belamcanda chinensis</i> (L.) Redoute	Tarbare ful	Iridaceae	H	Med	Rt	M
75	<i>Berberis aristata</i> DC.	Chutro	Berberidaceae	S	Med	Br, Lf	M
76	<i>Berberis asiatica</i> Roxb. ex DC.	Chutro	Berberidaceae	S	Med	Fr	MT
77	<i>Bergenia ciliata</i> (Haw.) Sternb.	Pakhan Ved	Saxifragaceae	H	Med	Rh	MT
78	<i>Betula alnoides</i> Buch.-Ham. ex D. Don	Saur	Betulaceae	T	Med	Br	MT
79	<i>Bidens pilosa</i> L.	Tikhe kurro	Asteraceae	H	Med	St, Lf	B
80	<i>Bischofia javanica</i> Blume	Kaijal	Staphyllaceae	T	Med	Lf	B
81	<i>Bixa orellana</i> L.	Sidure	Bixaceae	S	Med	Rt, Br	B
82	<i>Boehmeria platyphylla</i> D. Don.	Kamle	Urticaceae	H	Med	Lf	B
83	<i>Boehmeria rugulosa</i> Wedd.	Dar	Urticaceae	T	Med	Br	B
84	<i>Boeninghausenia albiflora</i> (Hook.) Reichenb. ex Meissn.	Makhe mauro	Rutaceae	H	Med	Wh	T
85	<i>Boerhavia diffusa</i> L.	Punarwa	Nyctaginaceae	S	Med	Wh	B
86	<i>Bombax ceiba</i> L.	Simal	Bombacaceae	T	Med	Fl, latex	BT
87	<i>Bougainvillea glabra</i> Choisy	Barhamase	Nyctaginaceae	S	Orn	Fl	B
88	<i>Brachycorythis obcordata</i> (Lindl.)	Gamdol	Orchidaceae	H	Med	Rt	T
89	<i>Brassaiopsis hainla</i> (Buch.-Ham. ex D. Don) Seem.	Seto chuletro	Araliaceae	T	Fod	Fl	T
90	<i>Bridelia retusa</i> (L.) Spreng.	Gayo	Euphorbiaceae	T	Med	Rt, Br	T
91	<i>Bryophyllum pinnatum</i> (Lam.) Oken	Patthar churna	Crassulaceae	H	Med	Lf	B
92	<i>Buddleja asiatica</i> Lour.	Vimsen pati	Buddlejaceae	T	Med	Br	B
93	<i>Butea buteiformis</i> (Voigt) Grierson	Bhuletro	Fabaceae	S	Med	Sd	B
94	<i>Butea monosperma</i> (Lam.) Kuntze	Palans	Fabaceae	T	Med	Fl	B
95	<i>Calamus tenuis</i> Roxb.	Bet	Arecaceae	S	Rat	St	B
96	<i>Calliandra brevipes</i> Benth.		Fabaceae	S	Orn	Wh	B
97	<i>Callicarpa arborea</i> Roxb.	Guyalo	Verbenaceae	T	Med	Br	B
98	<i>Callicarpa macrophylla</i> Vahl.	Dahichamle	Verbenaceae	S	Med	Rt, Fr	B
99	<i>Callistemon citrinus</i> (Curtis) Skeels	Kalki	Myrtaceae	T	Orn	Fl	BMT
100	<i>Calotropis gigantea</i> (L.) Dryand.	Aank	Asclepiadaceae	H	Med	Latex	B
101	<i>Camellia sinensis</i> (L.) Kuntze	Chiya	Theaceae	S	Med	Lf	MT
102	<i>Campanula pallida</i> Wall.	Nepali bis	Campanulaceae	H	Med	Rt	M
103	<i>Canarium bengalense</i> Roxb.	Goguldhup	Burseraceae	T	Med	Latex	T
104	<i>Canna edulis</i> Ker Gawl.	Ful tarul	Cannaceae	H	Med	Rh	MT
105	<i>Cannabis sativa</i> L.	Ganja	Cannabaceae	H	Med	Lf	MT
106	<i>Careya arborea</i> Roxb.	Kumvi	Lecythidaceae	T	Med	Br	B
107	<i>Carica papaya</i> L.	Mewa	Caricaceae	S	Med	Fr	B
108	<i>Caryopteris odorata</i> (D. Don) B.L. Robinson	Mohani	Verbenaceae	S	Med	Br	B
109	<i>Caryota urens</i> L.	Rangbhang	Arecaceae	T	Orn	Wh	B
110	<i>Cassia alata</i> L.	Dadpat	Fabaceae	S	Med	Lf	B
111	<i>Cassia fistula</i> L.	Rajbrikcha	Fabaceae	T	Med	Fr, Br	B
112	<i>Cassia floribunda</i> Cav.	Tapre	Fabaceae	S	Med	Sd	B
113	<i>Cassia siamea</i> (Lam.) Irwin et Barneby	Tapre	Fabaceae	S	Orn	Fl	B
114	<i>Cassia tora</i> L.	Tapre	Fabaceae	H	Med	Rt, Lf	B
115	<i>Castanopsis indica</i> (Roxb.) Miq.	Katus	Fagaceae	T	Med	Br	T
116	<i>Castanopsis tribuloides</i> (Sm.) A. DC.	Musure katush	Fagaceae	T	Med	Rt	M
117	<i>Catharanthus roseus</i> (L.) G. Don	Sadabahar	Apocynaceae	H	Med	Wh	B

118	<i>Cautleya spicata</i> (Sm.) Baker	Panisarro	Zingiberaceae	H	Med	Rh	T
119	<i>Cedrus deodara</i> (Roxb. ex D. Don) G. Don	Devdar	Pinaceae	T	Med	Lf	MT
120	<i>Centella asiatica</i> (L.) Urb.	Ghodtapre	Apiaceae	H	Med	Wh	BMT
121	<i>Centratherum anthelminticum</i> (L.) Gamble	Kalo jira	Asteraceae	H	Med	Sd	B
122	<i>Cephaelis ipecacuanha</i> (Brot.) A. Rich.	Ipikak	Rubiaceae	H	Med	Rt	B
123	<i>Cheilanthes bicolor</i> (Forssk.) Kaulf.	Ranisinka	Pteridaceae	H	Med	Wh	BMT
124	<i>Chenopodium album</i> L.	Bethe	Chenopodiaceae	H	Med	Lf	B
125	<i>Chlorophytum arundinaceum</i> Baker	Seto musli	Liliaceae	H	Med	Rt	B
126	<i>Chlorophytum borivilianum</i> L.	Seto musli	Liliaceae	H	Med	Rt	B
127	<i>Chlorophytum nepalense</i> (Lindl.) Baker	Ban lasun	Liliaceae	H	Med	Rt	M
128	<i>Choerospondias axillaris</i> (Roxb.) B. L. Burtt & A. W. Hill	Lapsi	Anacardiaceae	T	Med	Fr	T
129	<i>Chromolaena odorata</i> (L.) King & H.E. Robins.	Banmara	Asteraceae	H	Med	Lf	B
130	<i>Chrysanthemum cinerariifolium</i> (Trevir.) Vis.	Pairethram	Asteraceae	H	Med	Lf	MT
131	<i>Chrysanthemum indicum</i> L.	Godavari ful	Asteraceae	H	Orn	Fl	BMT
132	<i>Cinnamomum camphora</i> (L.) J. Presl	Kapur	Lauraceae	T	Med	Latex	BT
133	<i>Cinnamomum glaucescens</i> (Nees.) Nand. Mazz	Sugandhakokila	Lauraceae	T	Med	Fr	BT
134	<i>Cinnamomum tamala</i> (Buch.-Ham.) Nees & Eberm.	Tejpat	Lauraceae	T	Med	Lf	BT
135	<i>Cissampelos pariera</i> L.	Gujar gano	Menispermaceae	C	Med	St bulb	B
136	<i>Cissus quadrangularis</i> L.	Sissus	Vitaceae	C	Orn	Wh	B
137	<i>Cleistocalyx operculata</i> (Roxb.) Merr. & Perry	Kyamuno	Myrtaceae	T	Med	Br, Lf	T
138	<i>Clerodendrum indicum</i> (L.) Kuntze	Chinde	Verbenaceae	S	Med	Wh	B
139	<i>Clerodendrum viscosum</i> Vent.	Vati	Verbenaceae	S	Med	Br, Lf	B
140	<i>Coccinea grandis</i> (L.) Voigt.	Gol kakri	Cucurbitaceae	C	Med	Rt	B
141	<i>Codiaeum variegatum</i> (L.) Blume	Chhirke	Euphorbiaceae	S	Orn	Lf	B
142	<i>Coelogyne cristata</i> Lindl.	Chandigava	Orchidaceae	H	Orn	Fl	M
143	<i>Coffea arabica</i> L.	Kafi	Rubiaceae	S	Med	Sd	B
144	<i>Coix lachryma-jobi</i> L.	Vir kaulo	Poaceae	H	Med	Rt, Sd	B
145	<i>Colebrookea oppositifolia</i> Sm.	Dhusure	Lamiaceae	S	Med	Lf	B
146	<i>Conyza japonica</i> (Thunb) Less ex DC.	Salayo jhar	Asteraceae	H	Med	Wh	B
147	<i>Corchorus aestuans</i> L.	Balu jhar	Tiliaceae	S	Med	Rt	B
148	<i>Cordyline fruticosa</i> (L.) A. Chev.	Ratopate	Liliaceae	H	Orn	Wh	B
149	<i>Coriaria nepalensis</i> Wall.	Machhyan	Coriariaceae	S	Med	Lf, Fr	M
150	<i>Corydalis chaerophylla</i> DC.	Pahele	Papavaraceae	H	Med	Lf	T
151	<i>Costus speciosus</i> (Koenig) Sm.	Betlauri	Zingiberaceae	H	Med	Rt	B
152	<i>Cotoneaster acuminatus</i> Lindl.	Dhalke ful	Rosaceae	S	Orn	Wh	M
153	<i>Crassocephalum crepidioides</i> (Benth.) S. Moore	Dhedu phule	Asteraceae	H	Med	Rt, Lf	B
154	<i>Crataeva unilocularis</i> Buch.-Ham.	Sipligan	Capparaceae	T	Med	Br	B
155	<i>Crinum amoenum</i> Roxb. ex Ker Gawl.	Lily	Amarylidaeae	H	Orn	Fl	B
156	<i>Crocus sativus</i> L.	Kesar	Iridaceae	H	Med	Pistle	T
157	<i>Cryptomeria japonica</i> (L.f.) D. Don.	Dhupi	Taxodiaceae	T	Orn	Wh	M
158	<i>Crysanthemum cinerariifolium</i> (Trevir) Vis.	Pairethram	Asteraceae	H	Med	Fl	T
159	<i>Cuphea hyssopifolia</i> Kunth.	Cuphea	Lythraceae	H	Orn	Fl	B
160	<i>Cupressus torulosa</i> D. Don.	Dhupi	Cupressaceae	T	Med	Lf	MT
161	<i>Curculigo orchoides</i> Gaertn.	Syal dhote	Hypoxidaceae	H	Med	Rt	M
162	<i>Curcuma amada</i> Roxb.	Aamhaldi	Zingiberaceae	H	Med	Rh	B
163	<i>Curcuma angustifolia</i> Roxb.	Haledo	Zingiberaceae	H	Med	Rh	B
164	<i>Curcuma domestica</i> Valet.	Haledo	Zingiberaceae	H	Med	Rh	BMT
165	<i>Curcuma zedoaria</i> Rose	Kachur	Zingiberaceae	H	Med	Rh	B
166	<i>Cuscuta reflexa</i> Roxb.	Akashbeli	Convolvulaceae	C	Med	Wh	BMT
167	<i>Cutleya spicata</i> (J. E. Smith) Baker	Panisaro	Zingiberaceae	H	Orn	Wh	MT
168	<i>Cyanotis cristata</i> (L.) D. Don.	Sano kane	Commelinaceae	H	Orn	Wh	M
169	<i>Cycas pectinata</i> Griff.	Kalbal	Cycadaceae	S	Orn	Wh	B
170	<i>Cycas revoluta</i> Thunb.	Jagar	Cycadaceae	S	Med	Wh	BMT
171	<i>Cymbidium erythraum</i> Lindl.	Sunkhari	Orchidaceae	H	Orn	Fl	M
172	<i>Cymbidium iridioides</i> D. Don	Sunkhari	Orchidaceae	H	Med	Lf	M
173	<i>Cymbidium longifolium</i> D. Don	Sunkhari	Orchidaceae	H	Orn	Fl	M
174	<i>Cymbopogon flexuosus</i> (Nees ex Steud.) W. Watson	Kagati ghans	Poaceae	H	Med	Lf oil	BT
175	<i>Cymbopogon martinii</i> (Roxb.) W. Watson	Pamarosa	Poaceae	H	Med	Lf oil	BT
176	<i>Cymbopogon martinii</i> var. <i>sofia</i> Bruno	Zinger grass	Poaceae	H	Med	Lf oil	B
177	<i>Cymbopogon winterianus</i> Jowitt	Citronella	Poaceae	H	Med	Lf oil	BT

178	<i>Cynodon dactylon</i> (L.) Pers.	Dubo	Poaceae	H	Med	Wh	B
179	<i>Cynoglossum zeylanicum</i> (Vahl ex Hornem.) Thunb. ex Lehm.	Kanike kurro	Boraginaceae	H	Med	Rt	B
180	<i>Cyperus rotundus</i> L.	Mothe	Cyperaceae	H	Med	Rt	B
181	<i>Dalbergia latifolia</i> Roxb.	Sati sal	Fabaceae	T	Med	Br	B
182	<i>Dalbergia sissoo</i> Roxb. ex DC.	Sissau	Fabaceae	T	Med	Br	B
183	<i>Daphne bholua</i> Buch.-Ham. ex D. Don	Lokta	Thymelaeaceae	S	Med	Br	MT
184	<i>Daphne papyracea</i> Wall. ex Steud.	Barua	Thymelaeaceae	S	Med	Br	M
185	<i>Daphniphyllum himalense</i> (Benth.) Mull. Arg.	Rakchan	Daphniphyllaceae	T	Med	Wood	M
186	<i>Datura metel</i> L.	Kalo Dhature	Solanaceae	H	Med	Sd	M
187	<i>Datura stramonium</i> L.	Setro dhature	Solanaceae	H	Med	Fr	B
188	<i>Delonix regia</i> L.	Gulmohor	Fabaceae	T	Orn	Fl	B
189	<i>Dendrobium anceps</i> Sw.	Sunkhari	Orchidaceae	H	Orn	Fl	B
190	<i>Dendrobium longicornu</i> Lindl.	Sunkhari	Orchidaceae	H	Med	Wh	M
191	<i>Dendrobium moschatum</i> (Buch.-Ham.) Sw.	Sunkhari	Orchidaceae	H	Orn	Fl	B
192	<i>Dendrocalamus strictus</i> (Roxb.) Nees	Bans	Poaceae	S	Med	juice	BMT
193	<i>Desmotrichum fimbriatum</i> Bl.	Jibanti	Orchidaceae	H	Orn	Fl	MT
194	<i>Dianthus caryophyllus</i> L.	Dianthus	Caryophyllaceae	H	Orn	Fl	M
195	<i>Didymocarpus albicalyx</i> C.B. Clarke	Kumkum	Gesneriaceae	H	Med	Lf	M
196	<i>Digitalis purpurea</i> L.	Digitalis	Scrophulariaceae	H	Med	Rt	MT
197	<i>Dillenia pentagyna</i> Roxb.	Tatari	Dilleniaceae	T	Med	Br	B
198	<i>Dioscorea alata</i> L.	Ghar Tarul	Dioscoreaceae	C	Med	Tuber	B
199	<i>Dioscorea bulbifera</i> L.	Gittha	Dioscoreaceae	C	Med	Tuber	BMT
200	<i>Dioscorea deltoidea</i> Wall. ex Griseb.	Ban tarul	Dioscoreaceae	C	Med	Tuber	BMT
201	<i>Diploknema butyracea</i> (Roxb.) Baehni	Chiuri	Sapotaceae	T	Med	Sd, Br	B
202	<i>Dipsacus inermis</i> Wall.	Banmula	Dipsacaceae	H	Med	Rt	MT
203	<i>Dracaena reflexa</i> Lam.	Dresena	Liliaceae	H	Orn	Wh	B
204	<i>Drymaria diandra</i> Blume	Avijalo	Caryophyllaceae	H	Med	Wh	B
205	<i>Drypetes roxburghii</i> (Wall.) Hurusawa.	Putranjiba	Euphorbiaceae	S	Med	Lf, Fr	B
206	<i>Duranta erecta</i> L.	Nil kanda	Verbenaceae	S	Med	Lf	BT
207	<i>Eclipta prostrata</i> L.	Vringaraj	Asteraceae	H	Med	Wh	B
208	<i>Edgeworthia gardneri</i> (Wall.) Meisn.	Argeli	Thymelaeaceae	S	Med	Rt, Br	M
209	<i>Ehretia acuminata</i> R. Br.	Datarunga	Boraginaceae	T	Med	Br	B
210	<i>Elaeagnus infundibularis</i> Momiy.	Goyalo	Elaeagnaceae	S	Med	Fr	B
211	<i>Elaeagnus parvifolia</i> Wall. ex Royle.	Guyeli	Elaeagnaceae	S	Med	Fr	B
212	<i>Elaeocarpus sphaericus</i> (Gaertn.) K. Schum.	Rudrakshaya	Elaeocarpaceae	T	Med	Sd	B
213	<i>Elephantopus scaber</i> L.	Sahasrabuti	Asteraceae	H	Med	Rt	BM
214	<i>Elusine indica</i> (L.) Gaertn.	Kode jhar	Poaceae	H	Med	Wh	B
215	<i>Engelhardia spicata</i> Lesch. ex Blume	Mauwa	Juglandaceae	T	Med	Br	T
216	<i>Ephedra Gerardiana</i> Wall. ex Stapf	Somlata	Ephedraceae	H	Med	Wh	M
217	<i>Eria coronaria</i> (Lindl.) Rchb. f.	Sunkhari	Orchidaceae	H	Orn	Fl	T
218	<i>Eria graminifolia</i> Lindl.	Sunkhari	Orchidaceae	H	Orn	Fl	MT
219	<i>Eria lasiopetala</i> (Willd.) Ormerod	Sunkhari	Orchidaceae	H	Orn	Fl	B
220	<i>Eriobotrya elliptica</i> Lindl.	Maya	Rosaceae	T	Orn	Fl	MT
221	<i>Erythrina stricta</i> Roxb.	Phaledo	Fabaceae	T	Med	Br	B
222	<i>Eucalyptus camaldulensis</i> Dehnh.	Masala	Myrtaceae	T	Med	Lf	B
223	<i>Eucalyptus citriodora</i> Hook.	Masala	Myrtaceae	T	Med	Lf	BMT
224	<i>Euonymus tingens</i> Wall.	Kasuri	Celastraceae	T	Med	Br	M
225	<i>Euphorbia cotinifolia</i> L.	Dudhe	Euphorbiaceae	S	Orn	Wh	B
226	<i>Euphorbia hirta</i> L.	Dhudhe Jhar	Euphorbiaceae	H	Med	Latex	B
227	<i>Euphorbia pulcherrima</i> Willd. ex Klotzsch	Lalupate	Euphorbiaceae	S	Orn	Fl	M
228	<i>Euphorbia royleana</i> Boiss.	Siudi	Euphorbiaceae	T	Med	Latex	BT
229	<i>Euphorbia thymifolia</i> L.	Dudhe jhar	Euphorbiaceae	S	Med	Wh	B
230	<i>Euphorbia tirucalli</i> L.	Chepte siudi	Euphorbiaceae	T	Med	Latex, Br	B
231	<i>Eurya acuminata</i> DC.	Jhigani	Theaceae	T	Med	Lf, Fr	T
232	<i>Eurya cerasifolia</i> (D. Don) kobuski	Baklo jhino	Theaceae	T	Orn	Wh	T
233	<i>Fagopyrum tataricum</i> (L.) Gaertn.	Tite fapar	Polygonaceae	H	Med	Wh	M
234	<i>Ficus auriculata</i> Lour.	Nimaro	Moraceae	T	Med	Latex	BMT
235	<i>Ficus benghalensis</i> L.	Bar	Moraceae	T	Med	Latex	B
236	<i>Ficus benjamina</i> L.	Swami	Moraceae	T	Med	Latex	B
237	<i>Ficus elastica</i> Roxb. ex Hornem.	Rabar	Moraceae	T	Rub	Latex	B

238	<i>Ficus hederacea</i> Roxb.	Dudhe lahara	Moraceae	S	Orn	Wh	B
239	<i>Ficus hispida</i> L.	Khasreto	Moraceae	T	Med	juice	B
240	<i>Ficus lacor</i> Buch.-Ham.	Kavro	Moraceae	T	Med	Wh	T
241	<i>Ficus neriifolia</i> Sm.	Dudhilo	Moraceae	T	Med	Latex	T
242	<i>Ficus racemosa</i> L.	Dumri	Moraceae	T	Med	Fr	B
243	<i>Ficus religiosa</i> L.	Pipal	Moraceae	T	Med	Latex, Lf	B
244	<i>Ficus sarmentosa</i> Buch.-Ham. ex Sm.	Berulo	Moraceae	T	Med	Latex	M
245	<i>Ficus semicordata</i> Buch.-Ham. ex Sm.	Khanyu	Moraceae	T	Med	Latex	T
246	<i>Flemingia fruticulosa</i> Wall	Vatwasi	Fabaceae	H	Med	Rt	B
247	<i>Fragaria nubicola</i> Lindl. ex Lacaita	Bhuin aiselu	Rosaceae	H	Med	Lf	M
248	<i>Fraxinus floribunda</i> Wall.	Lakuri	Oleaceae	T	Med	St	MT
249	<i>Fuchsia hybrida</i>	Krishna kali	Onagraceae	H	Orn	Fl	M
250	<i>Galinsoga parviflora</i> Cav.	Ilame	Asteraceae	H	Med	Wh	B
251	<i>Gardenia jasminoides</i> Ellis	Indra kamal	Rubiaceae	S	Med	Fr	M
252	<i>Gastrochilus distichus</i> (Lindl) Ktze.	Sunkhari	Orchidaceae	H	Orn	Fl	T
253	<i>Gaultheria fragrantissima</i> Wall.	Dhasingre	Ericaceae	S	Med	Lf	MT
254	<i>Gelsemium stans</i> (L.) Kuntze	Pafele ful	Bignoniaceae	T	Orn	Wh	B
255	<i>Gerbera nivea</i> (DC.) Sch. Bip	Jhulo	Asteraceae	H	Orn	Fl	MT
256	<i>Ginkgo biloba</i> L.		Ginkgoaceae	T	Med	Lf, Rt	B
257	<i>Girardinia diversifolia</i> (Link) Friis	Allo	Urticaceae	H	Med	Br	MT
258	<i>Gnaphalium affine</i> D. Don.	Bokre ful	Asteraceae	H	Orn	Wh	M
259	<i>Gomphrena globosa</i> L.	Makhamali	Asteraceae	H	Med	Rt	B
260	<i>Gonostegia hirta</i> (Blume) Miq.	Chiple	Urticaceae	H	Med	Wh	M
261	<i>Gossypium arboreum</i> L.	Kapas	Malvaceae	S	Med	Lf, Rt	B
262	<i>Grevillea robusta</i> A. Cunn. ex R. Br.	Kangiyo ful	Proteaceae	H	Orn	Fl	MT
263	<i>Hedera nepalensis</i> K. Koch	Kathe dudhela	Araliaceae	S	Med	Lf	M
264	<i>Hedyotis diffusa</i> Wall.	Majithe jhar	Rubiaceae	H	Med	Wh	B
265	<i>Heliconia rostrata</i> W.J. Kress	Kerapate ful	Heliconiaceae	H	Orn	Fl	B
266	<i>Hemiphragma heterophyllum</i> Wall.	Nas jhar	Scrophulariaceae	H	Med	Wh	M
267	<i>Hibiscus rosa-sinensis</i> L.	Ghanti ful	Malvaceae	S	Med	Rt, Lf	BMT
268	<i>Holarrhena pubescens</i> (Buch.-Ham.) Wall. ex G. Don	Khirro	Apocynaceae	T	Med	Br	B
269	<i>Holmskioldia sanguinea</i> Retz.	Aputali	Verbenaceae	S	Orn	Fl	B
270	<i>Hoya linearis</i> Wall. ex D. Don	Dudhe lahara	Asclepiadaceae	C	Orn	Wh	B
271	<i>Hydrangea anomala</i> D. Don	Hansaraj	Hydrangeaceae	S	Orn	Fl	BMT
272	<i>Hymenopogon parasiticus</i> Wall.	Biri	Rubiaceae	H	Orn	Fl	M
273	<i>Hypoxis aurea</i> Lour.	Karsul	Hypoxidaceae	H	Med	Wh	T
274	<i>Imperata cylindrica</i> (L.) P. Beauv.	Siru	Poaceae	H	Med	Rt	B
275	<i>Inula cappa</i> (Buch.-Ham. ex D. Don) DC.	Gaitihare	Asteraceae	H	Med	Fl, Lf	M
276	<i>Ioxora coccinea</i> L.		Rubiaceae	S	Orn	Fl	B
277	<i>Ipomoea quamoclit</i> L.	Jayanti ful	Convolvulaceae	C	Med	Wh	B
278	<i>Jacaranda mimosifolia</i> D. Don	Jakaranda	Bignoniaceae	T	Med	Br, Lf	B
279	<i>Jasminum auriculatum</i> Vahl.	Juhi	Oleaceae	S	Med	Rt, Fl	B
280	<i>Jasminum humile</i> L.	Jai	Oleaceae	S	Med	Rt, Br	BMT
281	<i>Jatropha curcas</i> L.	Sajitwan	Euphorbiaceae	S	Med	Juice	B
282	<i>Juglans regia</i> L.	Okhar	Juglandaceae	T	Med	Br	MT
283	<i>Juniperus horizontalis</i> Moench	Dhupi	Cupressaceae	S	Med	St	MT
284	<i>Juniperus indica</i> Bertol.	Dhupi	Cupressaceae	S	Med	St	MT
285	<i>Juniperus recurva</i> Buch.-Ham. ex D. Don	Dhupi	Cupressaceae	S	Med	St	M
286	<i>Justicia adhatoda</i> L.	Asuro	Acanthaceae	S	Med	Lf	B
287	<i>Lagerstroemia indica</i> L.	Asare ful	Lythraceae	T	Med	Br, Lf	BT
288	<i>Lagerstroemia parviflora</i> Roxb.	Bot dhayero	Lythraceae	T	Med	Lf, Fl	B
289	<i>Lantana camara</i> L.	Banfanda	Verbenaceae	S	Med	St, Lf	B
290	<i>Lawsonia inermis</i> L.	Mehandi	Lythraceae	S	Med	Rt, Lf	B
291	<i>Lecanthus peduncularis</i> (Royle) Wedd.	Kholejhar	Urticaceae	H	Med	Rt	M
292	<i>Leptodermis lanceolata</i> Wall.	Bhui champa	Rubiaceae	S	Med	Wh	T
293	<i>Leucaena leucocephala</i> (Lam.) de Wit	Ipil lipil	Fabaceae	T	Fod	Lf	B
294	<i>Leucas cephalotes</i> (Roth) Spreng.	Dronapuspi	Lamiaceae	H	Med	Wh	B
295	<i>Lindenbergia grandiflora</i> (Buch.-Ham. ex D. Don) Benth.	Vedi ful	Scrophulariaceae	H	Med	Lf	T
296	<i>Lindera neesiana</i> (Wall. ex Nees) Kurz	Siltimur	Lauraceae	T	Med	Fr	M
297	<i>Litchi chinensis</i> Sonner	Litchi	Sapindaceae	T	Med	Lf	B

298	<i>Litsea cubeba</i> (Lour.) Pers.	Siltimur	Lauraceae	T	Med	Sd	M
299	<i>Litsea monopetala</i> (Roxb.) Pers.	Kutmero	Lauraceae	T	Med	Rt, Br	B
300	<i>Lobelia pyramidalis</i> Wall.	Eklebir	Lobeliaceae	H	Med	Rt	M
301	<i>Luculia gratissima</i> (Wall.) Sweet	Gaitihare	Rubiaceae	S	Med	Br	T
302	<i>Ludwigia hyssopifolia</i> (G. Don) Exell	Lwang jhar	Onagraceae	H	Med	Lf	B
303	<i>Lyonia ovalifolia</i> (Wall.) Drude	Angeri	Ericaceae	T	Med	Lf	M
304	<i>Maesa chisia</i> Buch.-Ham. ex D. Don	Bilaune	Myrsinaceae	S	Med	Rt Br,Fr	BM
305	<i>Maesa macrophylla</i> (Wall.) DC.	Vogate	Myrsinaceae	S	Med	Br, Lf	T
306	<i>Mahonia napaulensis</i> DC.	Jamanemandro	Berberidaceae	S	Med	Br	BMT
307	<i>Mallotus philippensis</i> (Lam.) Mull. Arg.	Sindure	Euphorbiaceae	T	Med	Fr	B
308	<i>Malvaviscus arboreus</i> Cav.	Ghantiphool	Malvaceae	S	Orn	Fl	T
309	<i>Mangifera india</i> L.	Aamp	Anacardiaceae	T	Med	Br	B
310	<i>Manihot esculenta</i> Crantz.	Simal tarul	Euphorbiaceae	S	Food	Rt	B
311	<i>Manilkara zapota</i> (L.) P. Royen	Sapota	Sapotaceae	T	Med	Br	B
312	<i>Matricaria chamomilla</i> L.	Kamomail	Asteraceae	H	Med	Fl	B
313	<i>Melastoma melabathricum</i> L.	Kali angeri	Melastomaceae	S	Med	Wh	T
314	<i>Melia azedarach</i> L.	Bakaino	Meliaceae	T	Med	Br	MT
315	<i>Mentha arvensis</i> L.	Pudina	Lamiaceae	H	Med	Lf	MT
316	<i>Michelia champaca</i> L.	Champ	Magnoliaceae	T	Med	Br	BMT
317	<i>Mikania micrantha</i> Kunth	Lahare banmara	Asteraceae	C	Wed	Wh	B
318	<i>Milletia extensa</i> Benth.	Gaujo	Fabaceae	S	Med	Rt	B
319	<i>Mimosa pudica</i> L.	Lajjawati	Fabaceae	H	Med	Rt	B
320	<i>Mimosa rubicaulis</i> Lam.	Arari	Fabaceae	S	Med	Lf, Rt	B
321	<i>Mirabilis jalapa</i> L.	Malati	Nyctaginaceae	H	Med	Rt	B
322	<i>Morchella conica</i> Pers.	Guchchhi chya	Helvellaceae	H	Med	Wh	M
323	<i>Moringa oleifera</i> Lam.	Sahijan	Moringaceae	T	Med	Rt	B
324	<i>Morus alba</i> L.	Kimbu	Moraceae	T	Med	Latex	B
325	<i>Morus serrata</i> Roxb.	Kimbu	Moraceae	T	Med	Latex	T
326	<i>Mucuna monosperma</i> DC.	Baldhyangra	Fabaceae	C	Med	Sd	B
327	<i>Mucuna pruriens</i> (L.) DC.	Kauso	Fabaceae	H	Med	Sd	B
328	<i>Murdannia divergens</i> (C. B. Clarke) Bruckn.	Kane	Commelinaceae	H	Orn	Wh	B
329	<i>Murraya koenigii</i> (L.) Spreng.	Mitho neem	Rutaceae	S	Med	Br, Lf	B
330	<i>Murraya paniculata</i> (L.) Jack	Kamini ful	Rutaceae	S	Med	Br, Lf	B
331	<i>Musa paradisiaca</i> L.	Kera	Musaceae	H	Med	Core, Rt	M
332	<i>Myrica esculenta</i> Buch.-Ham. ex D. Don	Kaphal	Myricaceae	T	Med	Br	MT
333	<i>Nerium indicum</i> L.	Karbir	Apocynaceae	S	Orn	Wh	B
334	<i>Nyctanthes arbor-tristis</i> L.	Parijat	Oleaceae	S	Med	Br, Lf	B
335	<i>Oberonia ensiformis</i> (Sm.) Lindl.	Sunkhari	Orchidaceae	H	Orn	Fl	M
336	<i>Oberonia falconeri</i> Hook.	Sunkhari	Orchidaceae	H	Orn	Fl	B
337	<i>Ocimum basilicum</i> L.	Babari	Lamiaceae	H	Med	Lf	M
338	<i>Ocimum sanctum</i> L.	Tulasi	Lamiaceae	H	Med	Lf	BM
339	<i>Olea europaea</i> L.	Jaitun	Oleaceae	S	Med	Rt, Br, Lf	B
340	<i>Operculina turpethum</i> (L.) Silva Manso	Nisodh	Convolvulaceae	C	Med	Rt	BT
341	<i>Ophiopogon clarkei</i> Hook. f.	Ban supadi	Liliaceae	H	Orn	Wh	M
342	<i>Oplismenus compositus</i> (L.) P. Beauv.		Poaceae	H	Fod	Wh	B
343	<i>Opuntia monacantha</i> (Willd.) Haw.	Nakhbeni	Cactaceae	S	Med	Fr	M
344	<i>Oroxylum indicum</i> (L.) Kurz	Tatelo	Bignoniaceae	T	Med	Br, Sd	B
345	<i>Osbeckia nepalensis</i> Hook.	Seto chulsi	Melastomaceae	S	Med	Rt	T
346	<i>Osbeckia stellata</i> Buch.-Ham. ex D. Don	Chulsi	Melastomaceae	S	Med	Rt	MT
347	<i>Osmanthus fragrans</i> Lour.	Singre	Oleaceae	T	Med	Br, Fl	B
348	<i>Oxalis corniculata</i> L.	Chari amilo	Oxalidaceae	H	Med	Wh	B
349	<i>Oxyspora paniculata</i> (D. Don) Candolle		Melastomaceae	S	Orn	Fl	T
350	<i>Paederia foetida</i> L.	Padejhar	Rubiaceae	H	Med	Rt, Fr	B
351	<i>Pandanus nepalensis</i> St. John	Kewara	Pandanaceae	S	Med	Sd	B
352	<i>Papaver somniferum</i> L.	Aphim	Papavaraceae	H	Med	Latex	T
353	<i>Papilionanthe teres</i> (Roxb.) Shltr.	Sunkhari	Orchidaceae	H	Orn	Fl	B
354	<i>Paris polyphylla</i> Sm.	Satuwa	Liliaceae	H	Med	Rh	T
355	<i>Parochetus communis</i> Buch.-Ham. ex D. Don.	Kerau jhar	Fabaceae	H	Med	Rt, Lf	M
356	<i>Parthenium hysterophorus</i> L.	Parthenium	Asteraceae	H	Wed	Wh	B
357	<i>Paulownia tomentosa</i> (Thunb.) Steud.	Poulenia	Paulowniaceae	T	Tim	St	BT

358	<i>Pelatantheria insectifera</i> (Rchb.f.) Ridl.	Sunkhari	Orchidaceae	H	Orn	Fl	B
359	<i>Persea americana</i> Mill	Avocado	Lauraceae	T	Food	Fr	B
360	<i>Persea odoratissima</i> (Nees) Kosterm.	Kaulo	Auraceae	T	Med	Br	T
361	<i>Persicaria chinensis</i> (L.) H. Gross	Kukur thotne	Polygonaceae	H	Med	Wh	T
362	<i>Phoenix acaulis</i> Roxb. ex Buch.-Ham.	Khajuri thakal	Arecaceae	S	Med	Rt, Fr	B
363	<i>Phoenix dactylifera</i> L.	Khajuri thakal	Arecaceae	S	Med	Lf, Fr	B
364	<i>Phoenix humilis</i> Royle. ex Buch.-Ham. K. f.	Thakal	Arecaceae	S	Food	Fr	B
365	<i>Pholidota imbricata</i> Hook.	Sunkhari	Orchidaceae	H	Med	Pseudobulb	M
366	<i>Phyllanthus amarus</i> Schum. & Thomsoni	Bhui amala	Euphorbiaceae	S	Med	Wh	B
367	<i>Phyllanthus emblica</i> L.	Amala	Euphorbiaceae	T	Med	Br, Fr	MT
368	<i>Phytolacca acinosa</i> Roxb.	Jarango	Phytolaccaceae	H	Med	Wh	M
369	<i>Pieris formosa</i> (Wall.) D. Don	Balu	Ericaceae	S	Med	Lf	M
370	<i>Pilea scripta</i> (Buch.-Ham. ex D. Don) Wedd.	Gagleti	Urticaceae	H	Wed	Wh	M
371	<i>Pinus patula</i> Schiede ex Schltdl. & Cham.	Pate sallo	Pinaceae	T	Med	Latex	MT
372	<i>Pinus roxburghii</i> Sarg.	Rani salla	Pinaceae	T	Med	Latex	BT
373	<i>Pinus wallichiana</i> A. B. Jacks.	Gobre sallo	Pinaceae	T	Med	Latex	MT
374	<i>Piper betle</i> L.	Pan	Piperaceae	C	Med	Rt, Lf	B
375	<i>Piper longum</i> L.	Pipla	Piperaceae	C	Med	Rt, Fr	B
376	<i>Piper nigrum</i> L.	Marich	Piperaceae	C	Food	Fr	B
377	<i>Piptanthus nepalensis</i> (Hook.) D. Don	Vatmase jhar	Fabaceae	S	Orn	Fl	M
378	<i>Plantago erosa</i> Wall.	Isabgol	Plantaginaceae	H	Med	Rt	M
379	<i>Plantago major</i> L.	Isabgol	Plantaginaceae	H	Med	Sd	M
380	<i>Pleione praecox</i> (Sm.) D. Don	Sunkhari	Orchidaceae	H	Med	Pseudobulb	M
381	<i>Plumbago zeylanica</i> L.	Chitu	Plumbaginaceae	S	Med	Wh	B
382	<i>Plumeria rubra</i> L.	Chuwa	Apocynaceae	T	Med	Rt, Br	B
383	<i>Podocarpus neriifolius</i> D. Don	Gunsi	Podocarpaceae	T	Med	Lf, Br	B
384	<i>Pogostemon benghalensis</i> (Brum. f.) Kuntze	Rudilo	Lamiaceae	H	Med	Lf	B
385	<i>Pogostemon glaber</i> Benth.	Rudilo	Lamiaceae	H	Med	Lf	B
386	<i>Polyalthia longifolia</i> (Sonn.) Thwaites	Asoka	Annonaceae	T	Med	Br	M
387	<i>Potentilla fruticosa</i> L.	Bajradanti	Rosaceae	H	Med	Rt	M
388	<i>Potentilla fulgens</i> Wall. ex Hook.	Bajradanti	Rosaceae	H	Med	Rt	T
389	<i>Potentilla peduncularis</i> D. Don	Nagbhya	Rosaceae	H	Med	Rt	M
390	<i>Premna latifolia</i> L.	Ginneri	Verbenaceae	T	Med	Br	B
391	<i>Primula glomerata</i>	Medosoro	Primulaceae	H	Orn	Fl	M
392	<i>Prinsepia utilis</i> Royle	Bhekali	Rosaceae	S	Med	Sd	M
393	<i>Prunus cerasoides</i> D. Don.	Paiyu	Rosaceae	T	Med	Br	M
394	<i>Prunus cornuta</i> (Wall. ex Royle) Steud.	Baan aaru	Rosaceae	T	Med	Br	M
395	<i>Prunus domestica</i> L.	Alucha	Rosaceae	T	Med	Fr	M
396	<i>Prunus persica</i> (L.) Batsch.	Aaru	Rosaceae	T	Med	Bud	M
397	<i>Psidium guajava</i> L.	Amba	Myrtaceae	T	Med	Br	M
398	<i>Pterocarpus marsupium</i> Roxb	Bijayasal	Fabaceae	T	Med	St, Lf	B
399	<i>Punica granatum</i> L.	Darim	Punicaceae	T	Med	Fr	M
400	<i>Pyracantha crenulata</i> (D. Don) M. Roem.	Ghangaru	Rosaceae	S	Med	Fr	MT
401	<i>Pyrostegia venusta</i> (Ker Gawl.) Miers	Swosthani ful	Bignoniaceae	C	Orn	Fl	B
402	<i>Pyrus communis</i> L.	Naspati	Rosaceae	T	Med	Fr	M
403	<i>Pyrus pashia</i> Buch.-Ham. ex D. Don	Mayal	Rosaceae	T	Med	Fr	BMT
404	<i>Quercus glauca</i> Thunb.	Falant	Fagaceae	T	Tim	St	MT
405	<i>Quercus lanata</i> Sm.	Banjha	Fagaceae	T	Med	Br	M
406	<i>Quercus semecarpifolia</i> Sm.	Khasru	Fagaceae	T	Med	Br	MT
407	<i>Quisqualis indica</i> L.	Baja ful	Combretaceae	S	Med	Lf, Sd	B
408	<i>Rauvolfia canescens</i> L.	Sarpagandha	Apocynaceae	S	Med	Rt	B
409	<i>Rauvolfia serpentina</i> (L.) Benth. ex Kurz	Sarpagandha	Apocynaceae	H	Med	Rt	B
410	<i>Reinwardtia indica</i> Dumort.	Pyauli	Linaceae	H	Med	Lf	B
411	<i>Rhaphidophora decursiva</i> (Roxb.) Schott	Thulo kanchirne	Araceae	C	Orn	Wh	B
412	<i>Rheum australe</i> D. Don	Padam chal	Polygonaceae	H	Med	Rt, petiole	M
413	<i>Rhododendron arboreum</i> Sm.	Laligurans	Ericaceae	T	Med	Fl	M
414	<i>Rhododendron barbatum</i> Wall. ex G. Don	Rapu	Ericaceae	T	Med	Lf	M
415	<i>Rhododendron lepidotum</i> Wall. ex G. Don	Bhale Sunpati	Ericaceae	S	Med	Wh	M
416	<i>Rhus javanica</i> L.	Vaki amilo	Anacardiaceae	T	Med	Fr	M
417	<i>Rhus succedanea</i> L.	Valayo	Anacardiaceae	T	Med	Lf, Fr	M

418	<i>Rhus wallichii</i> Hook. f.	Valayo	Anacardiaceae	T	Med	Fr	M
419	<i>Ricinus communis</i> L.	Ader	Euphorbiaceae	S	Med	Lf, Rt	B
420	<i>Rosa indica</i> L.	Gulaf	Rosaceae	S	Med	Rt	M
421	<i>Rosmarinus officinalis</i> L.	Rosemary	Lamiaceae	H	Med	Lf	B
422	<i>Rubia manjith</i> Roxb. ex Fleming	Majitho	Rubiaceae	C	Med	St, Rt	M
423	<i>Rubus ellipticus</i> Sm.	Aiselu	Rosaceae	S	Med	Rt	BMT
424	<i>Rubus foliolosus</i> D.Don	Aiselu	Rosaceae	S	Med	St pith	M
425	<i>Rubus nepalensis</i> (Hook. f.) Kuntze	Bhui aiselu	Rosaceae	H	Food	Fr	M
426	<i>Rumex hastatus</i> D.Don	Charimal	Polygonaceae	H	Med	Wh	B
427	<i>Rumex nepalensis</i> Spreng.	Halhale	Polygonaceae	H	Med	Rt	M
428	<i>Rungia parviflora</i> (Retz.) Nees	Ukuche jhar	Acanthaceae	H	Med	Wh	B
429	<i>Saccharum spontaneum</i> L.	Kans	Poaceae	H	Med	Rt	B
430	<i>Sagina saginoides</i> (L.) Karsten	Sagina	Caryophyllaceae	H	Wed	Wh	M
431	<i>Sambucus hookeri</i> Rehder	Kanike ful	Sambucaceae	S	Orn	Fl	BT
432	<i>Santalum album</i> L.	Srikhanda	Santalaceae	S	Med	St	B
433	<i>Sapindus mukorossi</i> Gaertn.	Riththa	Sapindaceae	T	Med	Fr, Fr Br	MT
434	<i>Sapium inisgne</i> (Royle) Benth.ex Hook.f.	Khirro	Euphorbiaceae	T	Med	Latex, Lf	T
435	<i>Saurauia napaulensis</i> DC.	Gogan	Saurauiaceae	T	Med	Br	T
436	<i>Schefflera venulosa</i> (Wight & Arn.) Harms.	Kaichal	Araliaceae	H	Orn	Wh	B
437	<i>Schima wallichii</i> (DC.) Korth.	Chilaune	Theaceae	T	Med	Br	B
438	<i>Schleichera oleosa</i> (Lour.) Oken	Kusum	Sapindaceae	T	Med	Br, Fr	B
439	<i>Scoparia dulcis</i> L.	Mitha jhar	Scrophulariaceae	H	Med	Wh	B
440	<i>Scurrula elata</i> (Edgew.) Danser	Aijeru	Loranthaceae	H	Med	Lf	M
441	<i>Scutellaria discolor</i> Colebr.	Ratopate	Lamiaceae	H	Med	Rt	T
442	<i>Sedum morganianum</i> E. Walther	Ativala	Crassulaceae	H	Orn	Wh	M
443	<i>Selinum wallichianum</i> (DC.) Raizada & Saxena	Vutkesh	Apiaceae	H	Med	Lf	M
444	<i>Semecarpus anacardium</i> L.f.	Valayo	Anacardiaceae	T	Med	Fr latex	B
445	<i>Senecio cappa</i> Buch.-Ham. ex D.Don	Pramiji	Asteraceae	H	Med	Rt, Lf	M
446	<i>Sesbania grandiflora</i> (L.) Pers.	Agasti	Fabaceae	S	Med	Rt, Br	B
447	<i>Shorea robusta</i> Gaertn.	Sal	Dipterocarpaceae	T	Med	Latex, Br	B
448	<i>Smallanthus sonchifolius</i> (Poepp.) H. Rob.	Bhui syau	Asteraceae	H	Food	Tuber	T
449	<i>Smilax aspera</i> L.	Kukurdaino	Liliaceae	H	Med	St	BMT
450	<i>Solanum anguivi</i> Lam.	Thulo bihi	Solanaceae	H	Med	Rt, Fr	B
451	<i>Solanum nigrum</i> L.	Kaligadhi	Solanaceae	H	Wed	Wh	B
452	<i>Solanum surattense</i> Burm. f.	Kanthakari	Solanaceae	H	Med	Fr	B
453	<i>Solanum torvum</i> Swartz	Bihi	Solanaceae	H	Med	Fr	B
454	<i>Sonchus arvensis</i> L.	Dudhe	Asteraceae	H	Orn	Wh	B
455	<i>Spermacoce latifolia</i> Aubl.		Rubiaceae	H	Med	Lf	B
456	<i>Spilanthes paniculata</i> Wall.ex DC.	Marauti	Asteraceae	H	Med	Fl	B
457	<i>Spiranthes sinensis</i> (Pers.) Ames	Vui khari	Orchidaceae	H	Orn	Fl	M
458	<i>Spondias pinnata</i> (L.f.) Kurz	Amaro	Anacardiaceae	T	Med	Lf, Br	B
459	<i>Stellaria media</i> (L.) Vill.	Armale jhar	Caryophyllaceae	H	Med	Wh	B
460	<i>Stellaria monosperma</i> Buch.-Ham. ex D. Don	Jethi madhu	Caryophyllaceae	H	Med	St	MT
461	<i>Stephania glandulifera</i> Miers	Batulpate	Menispermaceae	C	Med	Lf	B
462	<i>Stevia rebaudiana</i> (Bertoni) Bertoni	Chinijhar	Asteraceae	H	Med	Lf	T
463	<i>Streblus aspera</i> Lour	Kakasi	Moraceae	S	Med	Rt, Br	B
464	<i>Swertia angustifolia</i> Buch.-Ham. ex D.Don	Chiraito	Gentianaceae	H	Med	Wh	T
465	<i>Swertia chirayita</i> (Roxb. ex Fleming) Karsten	Chiraito	Gentianaceae	H	Med	Wh	M
466	<i>Symplocos pyrifolia</i> Wall. ex G. Don	Kholme	Symplocaceae	T	Med	Sd	M
467	<i>Syzygium cumini</i> (L.) Skeels	Jamuna	Myrtaceae	T	Med	Br	B
468	<i>Tabernemontana divaricata</i> (L.) R.Br.	Takkar	Apocynaceae	S	Med	Fl	B
469	<i>Tagetes minuta</i> L.	Jangali sayapatri	Asteraceae	H	Med	Fl	MT
470	<i>Tagetes erecta</i> L.	Sayapatri	Asteraceae	H	Med	Rt, Lf	M
471	<i>Tamarindus indica</i> L.	Imali	Fabaceae	T	Med	Rt	B
472	<i>Taxus wallichiana</i> Zucc.	Lauth sallo	Taxaceae	T	Med	Lf	MT
473	<i>Tectona grandis</i> L.f.	Teak	Verbenaceae	T	Med	Br, Fl	B
474	<i>Terminalia alata</i> Heyne ex Roth	Saj	Combretaceae	T	Med	Br	B
475	<i>Terminalia bellirica</i> (Gaertn.) Roxb.	Barro	Combretaceae	T	Med	Fr	B
476	<i>Terminalia chebula</i> Retz.	Harro	Combretaceae	T	Med	Fr	B
477	<i>Terminalia catappa</i> L.	Kagaje badam	Combretaceae	T	Med	Br, Lf	B

478	Tetrastigma serrulatum (Roxb.) Planch.	Pani lahara	Vitaceae	C	Med	Rt	T
479	Thevetia peruviana (Pres.) K. Schi	Pahelo karbir	Apocynaceae	S	Orn	Fl	B
480	Thuja orientalis L.	Mayur pankhi	Cupressaceae	S	Orn	Wh	M
481	Thunbergia coccinea Wall. ex D. Don	Thapauli lahara	Acanthaceae	C	Med	Rt	B
482	Thysanolaena maxima (Roxb.) Kuntze	Amriso	Poaceae	H	Med	Rt	B
483	Tinospora sinensis (Lour.) Merr.	Gurjo	Menispermaceae	C	Med	St	BT
484	Toona ciliata M. Roem.	Tuni	Meliaceae	T	Med	Br	B
485	Trewia nudiflora L.	Vellor	Euphorbiaceae	T	Med	Wh	B
486	Trichosanthes tricuspidata Lour.	Indreni	Cucurbitaceae	C	Med	Sd, Rt	M
487	Trifolium repens L.	Beuli	Fabaceae	H	Orn	Fl	M
488	Tsuga dumosa (D. Don) Eichler	Thingre salla	Pinaceae	T	Tim	St	M
489	Urena lobata L.	Nalu kurro	Malvaceae	H	Med	Lf	B
490	Urtica dioica L.	Sisno	Urticaceae	H	Med	Lf	MT
491	Vaccinium nummularia Hook. f. & Thomson ex C. B. Clarke	Kali gedi	Ericaceae	S	Wed	Wh	M
492	Valeriana jatamansii Jones	Sugandhawala	Valerianaceae	H	Med	Rt	MT
493	Vanda testacea (Lindl.) Rchb.f.	Sunkhari	Orchidaceae	H	Med	Lf	B
494	Vernonia amygdalina Del.	Tito pate	Asteraceae	S	Med	Lf	B
495	Vetiveria zizanioides (L.) Nash	Khas khas	Poaceae	H	Med	Oil	B
496	Viburnum erubescens Wall. ex DC.	Ganmane	Sambucaceae	T	Med	Lf, Sd	M
497	Vitex negundo L.	Simali	Verbenaceae	S	Med	Lf	M
498	Wendlandia coriacea (Wall.) DC.	Tilka	Rubiaceae	T	Fod	Lf	B
499	Wikstroemia canescens Meisn.	Furke pate	Thymelaeaceae	S	Fibre	Br	M
500	Withania somnifera (L.) Dunal	Ashwogandha	Solanaceae	H	Med	Rt	B
501	Woodfordia fruticosa (L.) Kurz	Dhayero	Lythraceae	S	Med	Fl	B
502	Xanthium Strumarium L.	Bhede kurro	Asteraceae	H	Med	Fr	B
503	Xeromphis spinosa (Thunb.) Keay	Mainkanda	Rubiaceae	T	Med	Fr	B
504	Youngia japonica (L.) DC.	Dudhe	Asteraceae	H	Med	Lf	B
505	Yucca gloriosa L.	Kettuki	Agavaceae	S	Med	St	M
506	Zantedeschia aethiopica (L.)	Darsan pipal	Araceae	H	Med	Rh	B
507	Zanthoxylum armatum DC.	Timur	Rutaceae	S	Med	Fr	BMT
508	Zephyranthes carinata Herb.		Amariyllidaceae	H	Orn	Fl	B
509	Zizyphus incurva Roxb.	Hade bayer	Rhamnaceae	T	Food	Fr	T
510	Zizyphus mauritiana Lam.	Bayar	Rhamnaceae	S	Med	Fr	B

Acronyms: In BGs= Botanical Gardens, B=Brindavan BG, M=Mountain BG, T=Tistung BG, In Lf=Life form, H=Herb, S=Shrub, T=Timber, C=Climber, In Use Med=Medicinal, Orn=Ornamental, Tim=Timber, Fod=Fodder, Rat=Rattans, Rub=Rubber, Wed=Weeds, In part use: Lf=Leaves, Rt=Roots, Br=Bark, St=Stems, Fl=Flower, Fr=Fruit, Sd=Seed, Rh=Rhizome, Wh=Whole plant

Appendix 2: Plants of threaten category found in BGs of makwanpur

S. N.	Scientific name	Status
1	Abies spectabilis (D. Don) Mirb.	NT, Protected
2	Acacia catechu (L. f.) Willd.	CT, Protected
3	Aconitum spicatum (Bruhl) Stapf	CT
4	Alstonia scholaris (L.) R. Br.	Rare
5	Asparagus racemosus Willd.	Vul (CAMP)
6	Bergenia ciliata (Haw.) Sternb.	CT
7	Bombax ceiba L.	Protected
8	Butea monosperma (Lam.) Kuntze	EN
9	Choerospondias axillaris (Roxb.) B. L. Burtt & A. W. Hill	Rare
10	Cinnamomum glaucescens (Nees.) Nand.Mazz	Protected
11	Crataeva unilocularis Buch.-Ham.	Rare
12	Curculigo orchioides Gaertn.	Vul (CAMP)
13	Cycas pectinata Griff.	CITES II, EN
14	Dalbergia latifolia Roxb.	Vul, Protected
15	Dioscorea deltoidea Wall. ex Griseb.	CITES II, CT
16	Elaeocarpus sphaericus (Gaertn.) K. Schum.	Vul
17	Juglans regia L.	Protected

18	Lichens	Protected
19	Michelia champaca L.	EN, Protected
20	Operculina turpethum (L.) Silva Manso	EN(CAMP)
21	Orchids	CITES II
22	Oroxylum indicum (L.) Kurz	Vul
23	Paris polyphylla Sm.	Vul
24	Piper longum L.	Vul (CAMP)
25	Podocarpus neriifolius D.Don	CITES III
26	Pterocarpus marsupium Roxb	Protected
27	Rauvolfia serpentina (L.) Benth. ex Kurz	CITES II, EN
28	Rheum australe D. Don	Vul (CAMP)
29	Rubia manjith Roxb. ex Fleming	Vul (CAMP)
30	Shorea robusta Gaertn.	Protected
31	Swertia angustifolia Buch.-Ham. ex D.Don	EN (CAMP)
32	Swertia chirayita (Roxb. ex Fleming) Karsten	Vul
33	Taxus wallichiana Zucc.	CITES II, Protected
34	Tinospora sinensis (Lour.) Merr.	Vul (CAMP)
35	Valeriana jatamansii Jones	Protected

(Acronyms: NT=Near threatened, CT= Commercially threatened, Vul= Vulnerable, EN=Endangered)