

Collection and Digitization of Herbarium Specimens from Kailash Sacred Landscape - Nepal

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Abstract

Kailash sacred landscape is a transboundary landscape level conservation initiative between Nepal, China and India. The region is rich in terms of plant diversity, which is reflected in the collections of herbarium specimens from the region now housed at the National Herbarium at Godawari. To represent more of the plant species and localities from the region, recently field visits were conducted in each of the four Kailash districts of Nepal (Baitadi, Darchula, Humla and Bajhang) and herbarium specimens were collected. These valuable herbarium specimens are being digitized at the herbarium for their prolonged preservation and utilization.

Keywords: Database, KSL-Nepal, National Herbarium, Scanning

Introduction

Kailash Sacred Landscape (KSL) is characterized by unique and diverse composition of flora and fauna with its other associated environmental features. Plants play important role in maintaining ecological balance and supporting the livelihoods in the remote mountainous terrain. Moreover, knowing and documenting the plant diversity and assessing their contribution in different aspects of local population are crucial for their sustainable conservation. The Kailash Sacred Landscape Conservation and Development Initiative (KSLCDI) is a transboundary collaborative programme between China, India, and Nepal that has evolved through a participatory process among various local and national research and development institutions within these countries. The programme aims to achieve long-term conservation of ecosystems, habitats, and biodiversity while encouraging sustainable development, enhancing the resilience of communities in the landscape, and safeguarding the cultural linkages between local populations. Located within the remote southwestern portion of the Tibet Autonomous Region of China, adjacent districts in the Far-Western region of Nepal, and the northeastern flank of Uttarakhand State in northern India, the Kailash Sacred Landscape (KSL) is spread over an area of about 31,000 sq.km and represents a

diverse, multi-cultural, and fragile landscape (ICIMOD, 2012).

In an attempt to further expand the plant exploration from Kailash area of Nepal and effectively conserve the herbarium specimens collected from KSL that are housed at National Herbarium (KATH), an initiative was carried out by the National Herbarium under the aegis of Department of Plant Resources (DPR) - which is one of the partner of KSL-Nepal. It consisted of identification of potential unexplored areas, collection of herbarium specimens from those areas and digitization of the specimens.

Herbarium resources are valuable and irreplaceable history of floral diversity of Nepal, therefore, it is extremely important to safeguard them from natural and other disasters. Due to continuous handling, fragile herbarium sheets tend to wear off, which can be prevented by using the digital copy of them. Herbarium specimens are also the source of data for such current research issues as climate change, loss of biodiversity, evolution, discovery and description of new species, agricultural development, and the impact of natural disasters (Thiers et al. 2016). Furthermore, herbarium data can be accessed from any part of the world once it is uploaded in website.

Conservation and utilization of herbarium specimens is primary function of National Herbarium and Plant

Laboratories (KATH), which houses over 160000 specimens of herbarium of which, 87 are Type specimens. Safety of these specimens is becoming more and more challenging in present scenario having multitude of natural disasters and diverse research needs. Of the existing practice, Digitization is a strong tool to conserve and utilize the historic documents and images globally. By this technique, the important herbarium specimens are scanned by a custom designed 'Herbscan' scanner to produce high resolution image and at the same time, all the vital information on herbarium label are recorded in a database.

Objectives

- i. Plant exploration and herbarium collection from districts lying within Kailash Sacred Landscape (KSL)-Nepal (Humla, Bajhang, Baitadi and Darchula).
- ii. Digitization of herbarium specimens collected from KSL –Nepal region housed at National Herbarium and Plant Laboratories (KATH).

Methods

Study area

- i. Four districts namely Humla, Bajhang, Darchula and Baitadi (Fig. 1)
- ii. National Herbarium and Plant Laboratories, Godavari, Lalitpur.

Four field visits were carried out to explore and collect herbarium specimens. Emphasis was given to collect the plant specimens from the locations that were not represented in earlier plant collection expeditions. For this, herbarium specimens previously collected from the region were thoroughly studied at National Herbarium and Plant Laboratories, Godawari, Lalitpur and locations for present herbarium collection were identified. Potential locations were determined also on the basis of their altitudinal features; an altitudinal range of 1500 – 3500 m asl was set to accommodate sub-tropical to temperate type of vegetation keeping in mind the time constraint. During field visits, plant species in flowering stages were selected for study;

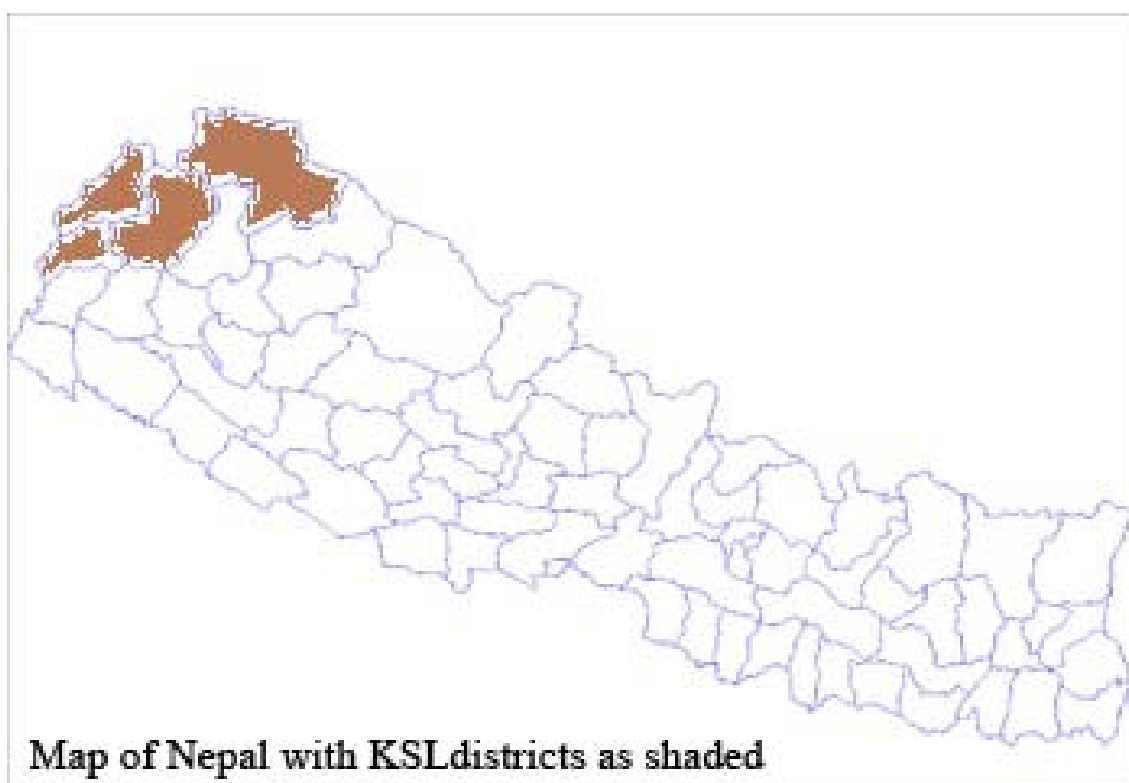


Figure 1: Map of Nepal showing the location of KSL-districts

Table 1: Synopsis of Field Study and Herbarium Collection

S. No.	District/Place	Date (Duration)	Team members	No. of herbarium collected
1	Baitadi/Shribhavar	2073/02/22 to 2073/02/28	Tirtha Raj Pandey, Ganga Datt Bhatt	98
2	Darchula/Malikarjun	2073/03/03 to 2073/03/09	Tirtha Raj Pandey, Diwakar Dawadi	85
3	Humla/Dozam	2073/05/23 to 2073/05/29	Tirtha Raj Pandey, Dhan Raj Kandel	70
4	Bajhang/Dhaulichaur	2073/06/16 to 2073/06/22	Tirtha Raj Pandey, Ramesh Basnet	15

they were photographed in field and specimens were collected for herbarium preparation and additional information on plant including their use(s)/ trade values (if any) were documented in consultation with 'Local Resource Person'.

The herbarium specimens collected were duly pressed, dried and mounted on herbarium sheet along with information label and housed at National Herbarium. Thus housed herbarium specimens were digitized which includes database entry and preparing high resolution image with the help of 'Herbscan'. Each specimen is given a unique barcode number for reference. The digitized images and the related databases thereof are safely kept in digital storage devices (Hard drives), which can be easily retrieved as required ensuring their protection as well.

Results

As part of documentation of plant species from KSL area, four field visits were carried out, one each in Baitadi, Darchula, Humla and Bajhang district lying within Kailash area on Nepal side.

1. 1st Field Visit: Shribhavar (2400 – 2600 m.), Baitadi

Previous botanical expeditions to Western Nepal mostly focused on high altitude vegetation of Darchula and Bajhang districts and most of Baitadi district remained unexplored. Therefore, to include the collection from relatively unexplored areas of Baitadi district, Shribhavar-lying near to Bajhang district was chosen. During this field work, a total of 98 herbarium specimens

were collected along with their associated information.

2. 2nd Field Visit: Malikarjun (1800 – 2500 m.), Darchula:

Darchula district is much diverse owing to its varied geography, presenting sub-tropical to alpine vegetation. There is excellent collection of herbarium specimens from the district but most of the collections are from the sub-alpine and alpine regions. For present collection, relatively unexplored area - Malikarjun, was selected and 85 herbarium specimens were collected from the area.

3. 3rd Field Visit: Simikot - Dozam (2900 – 3300 m.), Humla:

From Humla district, 70 herbarium specimens of angiosperms and pteridophytes were collected. The collection route consisted of Simikot to the northernmost settlement Dozam.

4. 4th Field Visit: Chainpur - Bauligad (1200 – 2000 m.), Bajhang:

Bajhang is also among the vastly explored area regarding botanical collections. During this field work, plant exploration was carried out in the way to the Surma, upstream of the Bauligad and along the Seti River. 15 herbarium specimens were also collected from this visit.

Digitization of Herbarium specimens

At the moment, 392 specimens from KSL-Nepal have been digitized and stored in digital storage devices at National Herbarium, Godawari, details of which is given in Table 2.

Conclusion

Herbarium specimens are basic requirements for documentation of plant diversity of any region. Preservation of these specimens is as important as the collection itself. The historic collections preserved at the National Herbarium and Plant Laboratories are undergoing the digitization. Documentation of plant diversity from Kailash region requires both new collections from the region and digitization of older collections deposited in the herbarium. Recent collections from the four districts lying within KSL will certainly help in the better understanding of plant wealth of the region and pave way forward for their effective conservation and utilization. New collection trips organized in previously unexplored areas will help to complete the vegetation assessment and the 392 herbarium specimens from the region are digitalized and safely stored for future reference and uses.

Acknowledgements

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References

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Table 2: List of digitized herbarium specimens at KATH collected from KSL-Nepal

S. No.	Barcode	Plant Name	Family	KSL District
1	KATH001190	<i>Aconitum violaceum</i> Jacquem. ex Stapf	RANUNCULACEAE	Bajhang
2	KATH001194	<i>Aconitum laeve</i> Royle	RANUNCULACEAE	Bajhang
3	KATH003165	<i>Smitinandia micrantha</i> (Lindl.) Holttum	ORCHIDACEAE	Humla
4	KATH003166	<i>Spiranthes sinensis</i> (Pers.) Ames	ORCHIDACEAE	Humla
5	KATH003167	<i>Spiranthes sinensis</i> (Pers.) Ames	ORCHIDACEAE	Darchula
6	KATH003168	<i>Spiranthes sinensis</i> (Pers.) Ames	ORCHIDACEAE	Darchula
7	KATH003240	<i>Juncus allioides</i> Franch.	JUNCACEAE	Bajhang
8	KATH003363	<i>Prunus venosa</i> Koehne	ROSACEAE	Bajhang
9	KATH004366	<i>Rhododendron barbatum</i> Wall. ex G. Don	ERICACEAE	Bajhang
10	KATH004997	<i>Strobilanthes capitata</i> (Nees) T. Anders	ACANTHACEAE	Darchula
11	KATH005142	<i>Bulbophyllum griffithii</i>	ORCHIDACEAE	Humla
12	KATH005143	<i>Adonis aestivalis</i> L.	RANUNCULACEAE	Humla
13	KATH005145	<i>Adonis chrysocyathus</i> Hook. f. & Thomson	RANUNCULACEAE	Humla
14	KATH005170	<i>Anemone vitifolia</i> Buch. - Ham. ex DC.	RANUNCULACEAE	Bajhang
15	KATH005210	<i>Delphinium vestitum</i> Wall. ex Royle	RANUNCULACEAE	Humla
16	KATH005214	<i>Delphinium stapeliosum</i> Bruhl ex. Huth	RANUNCULACEAE	Darchula
17	KATH005231	<i>Delphinium brunonianum</i> Royle	RANUNCULACEAE	Bajhang
18	KATH005253	<i>Ranunculus lancifolia</i> Bert.	RANUNCULACEAE	Humla
19	KATH005258	<i>Ranunculus hirtellus</i> Royle ex. D. Don	RANUNCULACEAE	Darchula
20	KATH005261	<i>Thalictrum elegans</i> Wall. ex. Royle	RANUNCULACEAE	Humla
21	KATH005269	<i>Ranunculus brotherusii</i> Freyn	RANUNCULACEAE	Humla
22	KATH005288	<i>Ranunculus ficariifolius</i> H. Lev. & Van.	RANUNCULACEAE	Bajhang
23	KATH005296	<i>Thalictrum foliolosum</i> DC.	RANUNCULACEAE	Bajhang
24	KATH005302	<i>Thalictrum saniculiforme</i> DC.	RANUNCULACEAE	Bajhang
25	KATH005309	<i>Thalictrum rostellatum</i> Hook. f. & Thomson	RANUNCULACEAE	Humla
26	KATH005321	<i>Paeonia emodi</i> Wall. ex Royle	PAEONIACEAE	Darchula
27	KATH005341	<i>Milium roxburghiana</i> Hook. f. & Thomson	ANNONACEAE	Bajhang
28	KATH005353	<i>Stephania glabra</i> (Roxb.) Miers	MENISPERMACEAE	Bajhang
29	KATH005363	<i>Cocculus laurifolius</i> DC.	MENISPERMACEAE	Bajhang
30	KATH005385	<i>Berberis chitria</i> Lindl.	BERBERIDACEAE	Bajhang
31	KATH005406	<i>Holboellia latifolia</i> Wall.	LARDIZABALACEAE	Bajhang
32	KATH010117	<i>Aesculus indica</i> (Colebr ex Cambess) Hook.	HIPPOCASTANACEAE	Baitadi
33	KATH010159	<i>Staphylea emodi</i> Wall. ex Brandis	STAPHYLEACEAE	Bajhang
34	KATH010281	<i>Caragana brevispina</i> Royle	LEGUMINOSAE	Humla
35	KATH010284	<i>Caragana versicolor</i> (Wall.) Benth.	LEGUMINOSAE	Darchula
36	KATH010368	<i>Indigofera hebeptala</i> Benth. ex Baker	LEGUMINOSAE	Humla
37	KATH010440	<i>Geum elatum</i> Wall. ex G. Don	ROSACEAE	Bajhang
38	KATH010481	<i>Potentilla fruticosa</i> L.	ROSACEAE	Darchula
39	KATH010483	<i>Potentilla eriocarpa</i> Wall. ex Lehm.	ROSACEAE	Darchula
40	KATH010492	<i>Potentilla kleiniana</i> Wight & Arn.	ROSACEAE	Darchula
41	KATH010512	<i>Potentilla microphylla</i> D. Don	ROSACEAE	Humla
42	KATH010517	<i>Potentilla atrosanguinea</i> (Lodd.) Hook. f.	ROSACEAE	Darchula
43	KATH010521	<i>Prunus persica</i> (L.) Batsch.	ROSACEAE	Bajhang
44	KATH010558	<i>Rubus nepalensis</i> (Hook. f.) Kuntze	ROSACEAE	Darchula
45	KATH010594	<i>Astilbe rivularis</i> Buch.-Ham. ex D. Don	SAXIFRAGACEAE	Humla
46	KATH010606	<i>Sorbus vestita</i> (Wall. ex G. Don) Lodd.	ROSACEAE	Darchula
47	KATH010614	<i>Sorbaria tomentosa</i> (Lindl.) Rehd.	ROSACEAE	Humla
48	KATH010627	<i>Sorbus microphylla</i> Wenzig	ROSACEAE	Humla
49	KATH010675	<i>Saxifraga pallida</i> Wall. ex Ser.	SAXIFRAGACEAE	Humla
50	KATH010688	<i>Saxifraga filicaulis</i> Wall. ex Ser.	SAXIFRAGACEAE	Humla
51	KATH010710	<i>Saxifraga mucronulata</i> Royle	SAXIFRAGACEAE	Bajhang
52	KATH010720	<i>Saxifraga sibirica</i> L.	SAXIFRAGACEAE	Bajhang
53	KATH010731	<i>Deutzia staminea</i> R. Br. ex Wall.	SAXIFRAGACEAE	Humla
54	KATH010950	<i>Trichosanthes lepiniana</i> (Naudin) Cogn.	CUCURBITACEAE	Humla
55	KATH010995	<i>Sanicula elata</i> Buch.-Ham. ex D. Don	UMBELLIFERAE	Darchula
56	KATH011019	<i>Chaerophyllum reflexum</i> Lindl.	UMBELLIFERAE	Bajhang
57	KATH011052	<i>Eleutherococcus cissifolius</i> (Seem.) Nakai	ARALIACEAE	Bajhang
58	KATH011063	<i>Panax pseudo-ginseng</i> Wall.	ARALIACEAE	Humla
59	KATH011077	<i>Benthamidia capitata</i> (Wall.) H. Hara	CORNACEAE	Baitadi
60	KATH011105	<i>Triosteum himalayana</i> Wall.	CAPRIFOLIACEAE	Darchula
61	KATH011117	<i>Viburnum nervosum</i> D. Don	SAMBUCACEAE	Humla
62	KATH011142	<i>Kohautia gracilis</i> (Wall.) DC.	RUBIACEAE	Humla
63	KATH011233	<i>Morina longifolia</i> Wall. ex DC.	MORINACEAE	Bajhang
64	KATH011249	<i>Senecio kumaonensis</i> Duthie ex C. Jeffrey & Y. L. Chen	COMPOSITAE	Bajhang

65	KATH011251	<i>Parasenecio quinquelobus</i> (DC.) Y. L. Chen	COMPOSITAE	Humla
66	KATH011270	<i>Aster barbellatus</i> Grierson	COMPOSITAE	Humla
67	KATH011273	<i>Aster falconeri</i> Bunge	COMPOSITAE	Bajhang
68	KATH011274	<i>Artemisia indica</i> Willd.	COMPOSITAE	Bajhang
69	KATH011278	<i>Anaphalis triplinervis</i> (Sims) C. B. Clarke	COMPOSITAE	Darchula
70	KATH011288	<i>Adenocaulon himalaicum</i> Edgew.	COMPOSITAE	Humla
71	KATH011311	<i>Anaphalis margaritacea</i> (L.) Benth. & Hook. f.	COMPOSITAE	Humla
72	KATH011320	<i>Anaphalis nepalensis</i> (Spreng.) Hand.-Mazz.	COMPOSITAE	Bajhang
73	KATH011323	<i>Arctium lappa</i> L.	COMPOSITAE	Humla
74	KATH011369	<i>Cremanthodium oblongatum</i> C. B. Clarke	COMPOSITAE	Bajhang
75	KATH011424	<i>Echinops niveus</i> Wall. ex Royle	COMPOSITAE	Humla
76	KATH011429	<i>Eclipta prostrata</i> (L.) L.	COMPOSITAE	Bajhang
77	KATH011438	<i>Eupatorium mairei</i> Lev.	COMPOSITAE	Humla
78	KATH011450	<i>Pseudognaphalium hypoleucum</i> DC. Hilliard & Burt	COMPOSITAE	Darchula
79	KATH011463	<i>Gerbera nivea</i> (DC.) Sch. Bip.	COMPOSITAE	Darchula
80	KATH011464	<i>Ligularia virgaurea</i> (Maxim.) Matf. ex Rehder & Kobuski	COMPOSITAE	Humla
81	KATH011478	<i>Launaea secunda</i> (Royle ex C. B. Clarke) Hook. f.	COMPOSITAE	Humla
82	KATH011489	<i>Pentanema indicum</i> (L.) Ling	COMPOSITAE	Humla
83	KATH011492	<i>Hieracium umbellatum</i> L.	COMPOSITAE	Humla
84	KATH011499	<i>Galinsoga parviflora</i> Cav.	COMPOSITAE	Humla
85	KATH011521	<i>Leontopodium himalayana</i> DC.	COMPOSITAE	Bajhang
86	KATH011523	<i>Leontopodium jacotianum</i> P. Beauv.	COMPOSITAE	Humla
87	KATH011526	<i>Ligularia amplexicaulis</i> DC.	COMPOSITAE	Bajhang
88	KATH011546	<i>Saussurea graminifolia</i> Wall. ex DC.	COMPOSITAE	Bajhang
89	KATH011580	<i>Solidago virga-aurea</i> L.	COMPOSITAE	Bajhang
90	KATH011585	<i>Serratula pallida</i> DC.	COMPOSITAE	Humla
91	KATH011591	<i>Senecio royleanus</i> DC.	COMPOSITAE	Humla
92	KATH011634	<i>Senecio laetus</i> Edgew.	COMPOSITAE	Darchula
93	KATH011663	<i>Cyananthus lobatus</i> Wall. ex Benth.	CAMPANULACEAE	Bajhang
94	KATH011678	<i>Campanula pallida</i> Wall.	CAMPANULACEAE	Bajhang
95	KATH011680	<i>Campanula pallida</i> Wall.	CAMPANULACEAE	Humla
96	KATH011739	<i>Rhododendron anthopogon</i> D. Don	ERICACEAE	Darchula
97	KATH011743	<i>Rhododendron campanulatum</i> D. Don	ERICACEAE	Darchula
98	KATH011748	<i>Rhododendron arboreum</i> Sm.	ERICACEAE	Darchula
99	KATH011766	<i>Rhododendron lepidotum</i> Wall. ex G. Don	ERICACEAE	Darchula
100	KATH011772	<i>Androsace lehmannii</i> Wall. ex Duby	PRIMULACEAE	Darchula
101	KATH011773	<i>Androsace muscoidea</i> Duby	PRIMULACEAE	Darchula
102	KATH011783	<i>Plumbago zeylanica</i> L.	PLUMBAGINACEAE	Darchula
103	KATH011835	<i>Primula drummondiana</i> Craib	PRIMULACEAE	Darchula
104	KATH011877	<i>Diploknemia butyracea</i> (Roxb.) H. J. Lam.	SAPOTACEAE	Baitadi
105	KATH011895	<i>Myrsine africana</i> L.	MYRSINACEAE	Bajhang
106	KATH011924	<i>Fraxinus micrantha</i> Ling.	OLEACEAE	Bajhang
107	KATH011933	<i>Fraxinus floribunda</i> Wall.	OLEACEAE	Bajhang
108	KATH011940	<i>Osmanthus fragrans</i> (Murray) Lour.	OLEACEAE	Baitadi
109	KATH011955	<i>Olea paniculata</i> R. Br.	OLEACEAE	Bajhang
110	KATH011963	<i>Chonemorpha fragrans</i> (Moon) Alston	APOCYNACEAE	Baitadi
111	KATH011998	<i>Ceropegia longifolia</i> Wall	ASCLEPIADACEAE	Darchula
112	KATH012004	<i>Ceropegia pubescences</i> Wall	ASCLEPIADACEAE	Baitadi
113	KATH012008	<i>Cynanchum auriculatum</i> Royle ex Wight	ASCLEPIADACEAE	Darchula
114	KATH012050	<i>Tylophora tenerrima</i> Wight	ASCLEPIADACEAE	Humla
115	KATH012050	<i>Vincetoxicum hirundinaria</i> Medicus	ASCLEPIADACEAE	Humla
116	KATH012051	<i>Vincetoxicum hirundinaria</i> Medicus	ASCLEPIADACEAE	Humla
117	KATH012098	<i>Swertia paniculata</i> Wall.	GENTIANACEAE	Darchula
118	KATH012133	<i>Cynoglossum lanceolatum</i> Forsk	BORAGINACEAE	Humla
119	KATH012162	<i>Trigonotis multicaulis</i> (DC.) Benth. ex C.B. Clarke	BORAGINACEAE	Darchula
120	KATH012168	<i>Trigonotis ovalifolia</i> (Wall.) Benth. ex C.B. Clarke	BORAGINACEAE	Bajhang
121	KATH012177	<i>Evolvulus alsinoides</i> (L.) L.	CONVOLVULACEAE	Baitadi
122	KATH012198	<i>Ipomoea nil</i> (L.) Roth.	CONVOLVULACEAE	Darchula
123	KATH012229	<i>Cuscuta reflexa</i> Roxb.	CONVOLVULACEAE	Bajhang
124	KATH012288	<i>Solanum erianthum</i> D. Don	SOLANACEAE	Darchula
125	KATH012306	<i>Lancea tibetica</i> Hook. f. & Thomson	SCROPHULARIACEAE	Bajhang
126	KATH012330	<i>Centranthera nepalensis</i> D. Don	SCROPHULARIACEAE	Baitadi
127	KATH012341	<i>Lindernia crustacea</i> (L.) F. Muell.	SCROPHULARIACEAE	Darchula
128	KATH012367	<i>Pedicularis collata</i> Prain	SCROPHULARIACEAE	Humla
129	KATH012405	<i>Pedicularis bifida</i> (Buch. -Ham. ex D. Don) Penell	SCROPHULARIACEAE	Darchula
130	KATH012452	<i>Sopubia trifida</i> Buch.-Ham. ex D. Don	SCROPHULARIACEAE	Bajhang
131	KATH012469	<i>Veronica cephaloides</i> Pennell	SCROPHULARIACEAE	Bajhang
132	KATH012506	<i>Orobancha alba</i> Steph. ex Willd.	OROBANCHACEAE	Humla

133	KATH012519	<i>Chirita pumila</i> D. Don	GESNERIACEAE	Darchula
134	KATH012580	<i>Clerodendron chinense</i> (Osborne) Mabb.	LABIATAE	Baitadi
135	KATH012652	<i>Elsholtzia flava</i> (Benth.) Benth.	LABIATAE	Baitadi
136	KATH012656	<i>Elsholtzia eriostachya</i> (Benth.) Benth.	LABIATAE	Bajhang
137	KATH012671	<i>Colquhounia coccinea</i> Wall.	LABIATAE	Darchula
138	KATH012679	<i>Mentha piperita</i> L.	LABIATAE	Bajhang
139	KATH012682	<i>Lamium album</i> L.	LABIATAE	Bajhang
140	KATH012698	<i>Melissa axillaris</i> (Benth.) Bakh. f.	LABIATAE	Bajhang
141	KATH012708	<i>Nepeta laevigata</i> (D. Don) Hand. - Mazz.	LABIATAE	Bajhang
142	KATH012752	<i>Rothea serrata</i> (L.) Steane & Mabb.	LABIATAE	Darchula
143	KATH012752	<i>Rothea serrata</i> (L.) Steane & Mabb.	LABIATAE	Darchula
144	KATH012767	<i>Salvia hians</i> Royle ex Benth.	LABIATAE	Humla
145	KATH012778	<i>Prunella vulgaris</i> L.	LABIATAE	Darchula
146	KATH012796	<i>Phlomis bracteosa</i> Royle ex Benth.	LABIATAE	Bajhang
147	KATH013282	<i>Peperomia tetraphylla</i> (G. Frost.) Hook & Arn.	PIPERACEAE	Humla
148	KATH013313	<i>Thalictrum neurocarpum</i> Royle	RANUNCULACEAE	Bajhang
149	KATH013496	<i>Plantago depressa</i> Willd.	PLANTAGINACEAE	Humla
150	KATH013514	<i>Mirabilis himalaica</i> (Edgew.) Heim.	NYCTAGINACEAE	Humla
151	KATH013545	<i>Alternanthera pungens</i> Kunth	AMARANTHACEAE	Humla
152	KATH013596	<i>Cyathula tomentosa</i> (Roth) Moq.	AMARANTHACEAE	Bhajang
153	KATH013603	<i>Deeringia amaranthoides</i> (Lam.) Merr.	AMARANTHACEAE	Humla
154	KATH013619	<i>Chenopodium album</i> L.	CHENOPODIACEAE	Bhajang
155	KATH013623	<i>Chenopodium ambrosioides</i> L.	CHENOPODIACEAE	Bajhang
156	KATH013630	<i>Chenopodium nepalense</i> Link ex Coll	CHENOPODIACEAE	Humla
157	KATH013657	<i>Polygonum rumicifolium</i> Royle ex Bab.	POLYGONACEAE	Darchula
158	KATH013662	<i>Bistorta affinis</i> (D. Don) Greene	POLYGONACEAE	Darchula
159	KATH013668	<i>Bistorta amplexicaulis</i> (D. Don) Greene	POLYGONACEAE	Darchula
160	KATH013693	<i>Bistorta macrophylla</i> (D. Don) Sojak	POLYGONACEAE	Humla
161	KATH013694	<i>Bistorta macrophylla</i> (D. Don) Sojak	POLYGONACEAE	Humla
162	KATH013702	<i>Bistorta perpusilla</i> (Hook. f.) Greene	POLYGONACEAE	Bajhang
163	KATH013707	<i>Bistorta rubra</i> Yonekura & H. Ohashi	POLYGONACEAE	Bajhang
164	KATH013716	<i>Bistorta vivipara</i> (L.) S. F. Gray	POLYGONACEAE	Bajhang
165	KATH013728	<i>Fagopyrum esculatum</i> Moench	POLYGONACEAE	Darchula
166	KATH013758	<i>Koenigia nepalensis</i> D. Don	POLYGONACEAE	Humla
167	KATH013764	<i>Koenigia mummularifolia</i> (Meisn.) Mesicek & Sojak	POLYGONACEAE	Darchula
168	KATH013771	<i>Oxyria digyna</i> (L.) Hill	POLYGONACEAE	Darchula
169	KATH013851	<i>Persicaria posumbu</i> (Buch. - Ham. ex D. Don) H. Gross	POLYGONACEAE	Darchula
170	KATH013858	<i>Polygonum capitatum</i> (Buch. - Ham.) H. Gross	POLYGONACEAE	Bajhang
171	KATH013904	<i>Rheum moorcroftianum</i> Royle	POLYGONACEAE	Bajhang
172	KATH013913	<i>Rumex acetosa</i> L.	POLYGONACEAE	Bajhang
173	KATH013922	<i>Rumex nepalensis</i> Spreng	POLYGONACEAE	Humla
174	KATH013940	<i>Peperomia pellucida</i> (L.) Kunth	PIPERACEAE	Baitadi
175	KATH013979	<i>Cinnamomum obtusifolium</i> (Roxb.) Nees	LAURACEAE	Baitadi
176	KATH014047	<i>Hippophae salicifolia</i> D. Don	ELAEAGNACEAE	Humla
177	KATH014048	<i>Hippophae salicifolia</i> D. Don	ELAEAGNACEAE	Darchula
178	KATH014050	<i>Elaeagnus parvifolia</i> Wall.	ELAEAGNACEAE	Bhajang
179	KATH014064	<i>Persea duthiei</i> (King) A.J.G.H. Kostermans	LAURACEAE	Humla
180	KATH014071	<i>Machilus odoratissima</i> Nees	LAURACEAE	Baitadi
181	KATH014086	<i>Neolitsea pallens</i> (D. Don) Momiyama and H. Hara ex H. Hara	LAURACEAE	Humla
182	KATH014107	<i>Daphne retusa</i> Hemsl.	THYMELAEACEAE	Bajhang
183	KATH014121	<i>Daphne bholua</i> var. <i>glacialis</i>	THYMELAEACEAE	Bajhang
184	KATH014211	<i>Chirita bifolia</i> D. Don	GESNERIACEAE	Darchula
185	KATH014241	<i>Chirita pumila</i> D. Don	GESNERIACEAE	Bhajang
186	KATH014377	<i>Coraliodiscus lanuginosus</i> (Wall. ex DC.) Burtt.	GESNERIACEAE	Humla
187	KATH014378	<i>Coraliodiscus lanuginosus</i> (Wall. ex DC.) Burtt.	GESNERIACEAE	Humla
188	KATH014379	<i>Coraliodiscus lanuginosus</i> (Wall. ex DC.) Burtt.	GESNERIACEAE	Bajhang
189	KATH014380	<i>Coraliodiscus lanuginosus</i> (Wall. ex DC.) Burtt.	GESNERIACEAE	Bajhang
190	KATH014381	<i>Coraliodiscus lanuginosus</i> (Wall. ex DC.) Burtt.	GESNERIACEAE	Bajhang
191	KATH014392	<i>Coraliodiscus lanuginosus</i> (Wall. ex DC.) Burtt.	GESNERIACEAE	Darchula
192	KATH014570	<i>Didymocarpus cinereus</i> D. Don	GESNERIACEAE	Darchula
193	KATH014571	<i>Didymocarpus cinereus</i> D. Don	GESNERIACEAE	Darchula
194	KATH014572	<i>Didymocarpus cinereus</i> D. Don	GESNERIACEAE	Darchula
195	KATH014573	<i>Didymocarpus cinereus</i> D. Don	GESNERIACEAE	Darchula
196	KATH014574	<i>Didymocarpus cinereus</i> D. Don	GESNERIACEAE	Baitadi
197	KATH014575	<i>Didymocarpus cinereus</i> D. Don	GESNERIACEAE	Baitadi
198	KATH003165	<i>Spiranthes sinensis</i> (Pers.) Ames	ORCHIDACEAE	Humla
199	KATH003166	<i>Spiranthes sinensis</i> (Pers.) Ames	ORCHIDACEAE	Humla
200	KATH003167	<i>Spiranthes sinensis</i> (Pers.) Ames	ORCHIDACEAE	Darchula

201	KATH003168	<i>Spiranthes sinensis</i> (Pers.) Ames	ORCHIDACEAE	Darchula
202	KATH003363	<i>Prunus venosa</i> Koehne	ROSACEAE	Bajhang
203	KATH004366	<i>Rhododendron barbatum</i> Wall. ex G. Don	ERICACEAE	Bajhang
204	KATH005142	<i>Cimicifuga foetida</i> Linn.	RANUNCULACEAE	Humla
205	KATH005143	<i>Adonis aestivalis</i> L.	RANUNCULACEAE	Humla
206	KATH005145	<i>Adonis chrysocyathus</i> Hook. f. & Thomson	RANUNCULACEAE	Humla
207	KATH005231	<i>Delphinium brunonianum</i> Royle	RANUNCULACEAE	Bajhang
208	KATH005253	<i>Ranunculus lancifolia</i> Bert.	RANUNCULACEAE	Humla
209	KATH005261	<i>Ranunculus ficariifolius</i> H. Lev. & Van.	RANUNCULACEAE	Humla
210	KATH005269	<i>Ranunculus brotherusii</i> Freyn	RANUNCULACEAE	Humla
211	KATH005296	<i>Thalictrum foliolosum</i> DC.	RANUNCULACEAE	Bajhang
212	KATH005302	<i>Thalictrum saniculiforme</i> DC.	RANUNCULACEAE	Bajhang
213	KATH005309	<i>Thalictrum rostellatum</i> Hook. f. & Thomson	RANUNCULACEAE	Humla
214	KATH005341	<i>Artabotrys hexapetalus</i> (L. f.) Bhand.	ANNONACEAE	Bajhang
215	KATH005385	<i>Berberis chitria</i> Lindl.	BERBERIDACEAE	Bajhang
216	KATH005406	<i>Holboellia latifolia</i> Wall.	LARDIZABALACEAE	Bajhang
217	KATH005439	<i>Corydalis govaniana</i> Wall.	PAPAVERACEAE	Bajhang
218	KATH005457	<i>Corydalis pseudojunccea</i> Ludlow	PAPAVERACEAE	Bajhang
219	KATH005521	<i>Alliaria petiolata</i> (M. Bieb.) Cavara & Grande	PAPAVERACEAE	Bajhang
220	KATH005524	<i>Papaver dubium</i> L.	PAPAVERACEAE	Baitadi
221	KATH005692	<i>Myricaria rosea</i> W. W. Smith	TAMARICACEAE	Bajhang
222	KATH005803	<i>Lavatera cachemiriana</i> Cambess.	MALVACEAE	Baitadi
223	kath005808	<i>Malva verticillata</i> L.	MALVACEAE	Humla
224	KATH005814	<i>Sida acuta</i> Burm. f.	MALVACEAE	Baitadi
225	KATH005861	<i>Linum usitatissimum</i> L.	LINACEAE	Humla
226	KATH005948	<i>Skimmia anquetilia</i> N.P. Taylor & Airy Shaw	RUTACEAE	Humla
227	KATH005952	<i>Zanthoxylum acanthopodium</i> DC.	RUTACEAE	Humla
228	KATH005957	<i>Picrasma quassioides</i> (Buch.-Ham. ex D. Don) Benn.	SIMAROUBACEAE	Humla
229	KATH005976	<i>Toona ciliata</i> M. Roem.	MELIACEAE	Darchula
230	KATH007961	<i>Prunus cornuta</i> (Wall. ex Royle) Steud.	ROSACEAE	Humla
231	KATH008050	<i>Ilex diphyrena</i> Wall.	AQUIFOLIACEAE	Darchula
232	KATH008185	<i>Hedera nepalensis</i> K. Koch	ARALIACEAE	Darchula
233	KATH008733	<i>Cassiope fastigiata</i> (Wall.) D. Don	ERICACEAE	Humla
234	KATH010159	<i>Staphylea emodi</i> Wall. ex Brandis	STAPHYLEACEAE	Bajhang
235	KATH010161	<i>Aesculus indica</i> (Colebr ex Cambess) Hook.	HIPPICASTANACEAE	Baitadi
236	KATH010174	<i>Rhus javanica</i> Roxb.	ANACARDIACEAE	Bajhang
237	KATH010281	<i>Caragana brevispina</i> Royle	LEGUMINOSAE	Humla
238	KATH010284	<i>Caragana versicolor</i> (Wall.) Benth.	LEGUMINOSAE	Darchula
239	KATH010348	<i>Mucuna nigricans</i> (Lour.) Steud.	LEGUMINOSAE	Baitadi
240	KATH010368	<i>Indigofera hebeptala</i> Benth. ex Baker	LEGUMINOSAE	Humla
241	KATH010440	<i>Geum elatum</i> Wall. ex G. Don	ROSACEAE	Bajhang
242	KATH010453	<i>Cotoneaster nitidus</i> Jacques	ROSACEAE	Darchula
243	KATH010483	<i>Potentilla eriocarpa</i> Wall. ex Lehm.	ROSACEAE	Darchula
244	KATH010492	<i>Potentilla kleiniana</i> Wight & Arn.	ROSACEAE	Darchula
245	KATH010512	<i>Potentilla microphylla</i> D. Don	ROSACEAE	Humla
246	KATH010517	<i>Potentilla atrosanguinea</i> (Lodd.) Hook. f.	ROSACEAE	Darchula
247	KATH010521	<i>Prunus persica</i> (L.) Batsch.	ROSACEAE	Bajhang
248	KATH010558	<i>Rubus nepalensis</i> (Hook. f.) Kuntze	ROSACEAE	Darchula
249	KATH010594	<i>Astilbe rivularis</i> Buch.-Ham. ex D. Don	SAXIFRAGACEAE	Humla
250	KATH010606	<i>Sorbus vestita</i> (Wall. ex G. Don) Lodd.	ROSACEAE	Darchula
251	KATH010614	<i>Sorbaria tomentosa</i> (Lindl.) Rehd.	ROSACEAE	Humla
252	KATH010627	<i>Sorbus microphylla</i> Wenzig	ROSACEAE	Humla
253	KATH010675	<i>Saxifraga pallida</i> Wall. ex Ser.	SAXIFRAGACEAE	Humla
254	KATH010688	<i>Saxifraga filicaulis</i> Wall. ex Ser.	SAXIFRAGACEAE	Humla
255	KATH010710	<i>Saxifraga mucronulata</i> Royle	SAXIFRAGACEAE	Bajhang
256	KATH010720	<i>Saxifraga sibirica</i> L.	SAXIFRAGACEAE	Bajhang
257	KATH010950	<i>Trichosanthes lepiniana</i> (Naudin) Cogn.	CUCURBITACEAE	Humla
258	KATH010984	<i>Circaea alpina</i> L.	ONAGRACEAE	Bajhang
259	KATH010995	<i>Sanicula elata</i> Buch.-Ham. ex D. Don	UMBELLIFERAE	Darchula
260	KATH011052	<i>Eleutherococcus cissifolius</i> (Seem.) Nakai	ARALIACEAE	Bajhang
261	KATH011063	<i>Panax pseudo-ginseng</i> Wall.	ARALIACEAE	Humla
262	KATH011077	<i>Benthamedia capitata</i> (Wall.) H. Hara	CORNACEAE	Baitadi
263	KATH011105	<i>Triosteum himalayana</i> Wall.	CAPRIFOLIACEAE	Darchula
264	KATH011117	<i>Viburnum nervosum</i> D. Don	SAMBUCACEAE	Humla
265	KATH011142	<i>Kohautia gracilis</i> (Wall.) DC.	RUBIACEAE	Humla
266	KATH011229	<i>Dipsacus inermis</i> Wall.	DIPSACACEAE	Darchula
267	KATH011233	<i>Morina longifolia</i> Wall. ex DC.	MORINACEAE	Bajhang
268	KATH011249	<i>Senecio kumaonensis</i> Duthie ex C. Jeffrey & Y. L. Chen	COMPOSITAE	Bajhang

269	KATH011251	<i>Parasenecio quinquelobus</i> (DC.) Y. L. Chen	COMPOSITAE	Humla
270	KATH011270	<i>Aster barbellatus</i> Grierson	COMPOSITAE	Humla
271	KATH011273	<i>Aster falconeri</i> Bunge	COMPOSITAE	Bajhang
272	KATH011274	<i>Artemisia indica</i> Willd.	COMPOSITAE	Bajhang
273	KATH011275	<i>Artemisia sieversiana</i> Willd.	COMPOSITAE	Baitadi
274	KATH011278	<i>Anaphalis triplinervis</i> (Sims) C. B. Clarke	COMPOSITAE	Darchula
275	KATH011288	<i>Adenocaulon himalaicum</i> Edgew.	COMPOSITAE	Humla
276	KATH011311	<i>Anaphalis margaritacea</i> (L.) Benth. & Hook. f.	COMPOSITAE	Humla
277	KATH011320	<i>Anaphalis nepalensis</i> (Spreng.) Hand.-Mazz.	COMPOSITAE	Bajhang
278	KATH011323	<i>Arctium lappa</i> L.	COMPOSITAE	Humla
279	KATH011357	<i>Cremanthodium reniforme</i> (DC.) Benth.	COMPOSITAE	Darchula
280	KATH011369	<i>Cremanthodium oblongatum</i> C. B. Clarke	COMPOSITAE	Bajhang
281	KATH011383	<i>Conyza canadensis</i> (L.) Croq.	COMPOSITAE	Humla
282	KATH011384	<i>Conyza japonica</i> (Thunb.) Less.	COMPOSITAE	Humla
283	KATH011424	<i>Echinops niveus</i> Wall. ex Royle	COMPOSITAE	Humla
284	KATH011429	<i>Erigeron karvinskianus</i> DC.	COMPOSITAE	Bajhang
285	KATH011438	<i>Eupatorium mairei</i> Lev.	COMPOSITAE	Humla
286	KATH011450	<i>Pseudognaphalium hypoleucum</i> DC. Hilliard & Burt	COMPOSITAE	Darchula
287	KATH011463	<i>Gerbera nivea</i> (DC.) Sch. Bip.	COMPOSITAE	Darchula
288	KATH011464	<i>Ligularia virgaurea</i> (Maxim.) Matf. ex Rehder & Kobuski	COMPOSITAE	Humla
289	KATH011478	<i>Launaea secunda</i> (Royle ex C. B. Clarke) Hook. f.	COMPOSITAE	Humla
290	KATH011489	<i>Pentanema indicum</i> (L.) Ling	COMPOSITAE	Humla
291	KATH011492	<i>Hieracium umbellatum</i> L.	COMPOSITAE	Humla
292	KATH011499	<i>Galinsoga parviflora</i> Cav.	COMPOSITAE	Humla
293	KATH011521	<i>Leontopodium himalaicum</i> DC.	COMPOSITAE	Bajhang
294	KATH011523	<i>Leontopodium jacotianum</i> P. Beauv.	COMPOSITAE	Humla
295	KATH011546	<i>Saussurea graminifolia</i> Wall. ex DC.	COMPOSITAE	Bajhang
296	KATH011580	<i>Solidago virga-aurea</i> L.	COMPOSITAE	Bajhang
297	KATH011591	<i>Senecio royleanus</i> DC.	COMPOSITAE	Humla
298	KATH011606	<i>Xanthium indicum</i> Roxb.	COMPOSITAE	Bajhang
299	KATH011634	<i>Senecio laetus</i> Edgew.	COMPOSITAE	Darchula
300	KATH011663	<i>Cyananthus lobatus</i> Wall. ex Benth.	CAMPANULACEAE	Bajhang
301	KATH011678	<i>Campanula pallida</i> Wall.	CAMPANULACEAE	Bajhang
302	KATH011680	<i>Campanula pallida</i> Wall.	CAMPANULACEAE	Humla
303	KATH011743	<i>Rhododendron campanulatum</i> D. Don	ERICACEAE	Darchula
304	KATH011766	<i>Rhododendron lepidotum</i> Wall. ex G. Don	ERICACEAE	Darchula
305	KATH011772	<i>Androsace lehmannii</i> Wall. ex Duby	PRIMULACEAE	Darchula
306	KATH011773	<i>Androsace muscoidea</i> Duby	PRIMULACEAE	Darchula
307	KATH011783	<i>Plumbago zeylanica</i> L.	PLUMBAGINACEAE	Darchula
308	KATH011796	<i>Primula atrodentata</i> W. W. Sm.	PRIMULACEAE	Humla
309	KATH011835	<i>Primula drummondiana</i> Craib	PRIMULACEAE	Darchula
310	KATH011877	<i>Diploknemia butyracea</i> (Roxb.) H. J. Lam.	SAPOTACEAE	Baitadi
311	KATH011895	<i>Myrsine africana</i> L.	MYRSINACEAE	Baitadi
312	KATH011924	<i>Fraxinus micrantha</i> Ling.	OLEACEAE	Bajhang
313	KATH011933	<i>Fraxinus floribunda</i> Wall.	OLEACEAE	Bajhang
314	KATH011963	<i>Chonemorpha fragrans</i> (Moon) Alston	APOCYNACEAE	Baitadi
315	KATH012902	<i>Stellaria monosperma</i> Buch. - Ham. ex D. Don var. <i>paniculata</i>	CARYOPHYLLACEAE	Bajhang
316	KATH012925	<i>Carpesium lipskyi</i> Winkl.	COMPOSITAE	Bajhang
317	KATH012969	<i>Crucihimalaya himalaica</i> (Edgew.) Al-Shehbaz et. al.	CRUCIFERAE	Humla
318	KATH012971	<i>Draba stenobotrys</i> Gilg & O. E. Schulz	CRUCIFERAE	Humla
319	KATH012975	<i>Nocca nepalensis</i> Al-Shehbaz	CRUCIFERAE	Humla
320	KATH013019	<i>Carex stracheyi</i> Bott ex C. B. Clarke	CYPERACEAE	Darchula
321	KATH013029	<i>Bidens biternata</i> (Lour.) Merr. et Sherff	COMPOSITAE	Bajhang
322	KATH013035	<i>Carex kumaonensis</i> Kuek.	CYPERACEAE	Darchula
323	KATH013036	<i>Schoenoplectiella fusciorubens</i> (T. Koyama) Hayasaka	CYPERACEAE	Darchula
324	KATH013121	<i>Ammannia multiflora</i> Roxb.	LYTHRACEAE	Bajhang
325	KATH013142	<i>Campylotropis macrostyla</i> (D. Don) Lind. ex Miq. var. <i>stenocarpa</i> (Klotzsch) H. Ohashi	LEGUMINOSAE	Bajhang
326	KATH013214	<i>Pedicularis ophioccephala</i> Maxim.	OROBANCHACEAE	Bajhang
327	KATH013249	<i>Epilobium amurense</i> Hausskn.	ONAGRACEAE	Bajhang
328	KATH013257	<i>Corydalis chaerophylla</i> De.	FUMARIACEAE	Darchula
329	KATH013335	<i>Galium elegans</i> Wall. ex Roxb. forma. <i>glabriusculum</i> (Reg. ex DC.) H. Hara ex H. Ohba	RUBIACEAE	Bajhang
330	KATH013413	<i>Urtica ardens</i> Link	URTICACEAE	Bajhang
331	KATH013521	<i>Achyranthes bidentata</i> Bl.	AMARANTHACEAE	Bajhang
332	KATH014047	<i>Hippophae salicifolia</i> D. Don	ELAEAGNACEAE	Humla
333	KATH014048	<i>Hippophae salicifolia</i> D. Don	ELAEAGNACEAE	Darchula
334	KATH014050	<i>Elaeagnus parvifolia</i> Wall	ELAEAGNACEAE	Bajhang

335	KATH000163	<i>Commelina benghalensis</i> Linn.	COMMELINACEAE	Darchula
336	KATH000164	<i>Commelina benghalensis</i> Linn.	COMMELINACEAE	Darchula
337	KATH000165	<i>Commelina benghalensis</i> Linn.	COMMELINACEAE	Darchula
338	KATH000219	<i>Commelina maculata</i> Edgew	COMMELINACEAE	Bajhang
339	KATH000220	<i>Commelina maculata</i> Edgew	COMMELINACEAE	Bajhang
340	KATH000360	<i>Cyanotis vaga</i> (Lour.) J. A. & J. H. Schult	COMMELINACEAE	Bajhang
341	KATH000452	<i>Murdania nudiflora</i> (L.) Brenan	COMMELINACEAE	Bajhang
342	KATH000602	<i>Allium prattii</i> C.H. Wright	LILIACEAE	Darchula
343	KATH000603	<i>Allium prattii</i> C.H. Wright	LILIACEAE	Darchula
344	KATH000622	<i>Aletris gracilis</i> Rendle	LILIACEAE	Bajhang
345	KATH000630	<i>Asparagus racemosus</i> Wild.	LILIACEAE	Bajhang
346	KATH000631	<i>Asparagus racemosus</i> Wild.	LILIACEAE	Bajhang
347	KATH000632	<i>Asparagus racemosus</i> Wild.	LILIACEAE	Bajhang
348	KATH000716	<i>Lilium nepalense</i> D. Don	LILIACEAE	Darchula
349	KATH000717	<i>Lilium nepalense</i> D. Don	LILIACEAE	Bajhang
350	KATH000783	<i>Paris polyphylla</i> Smith	LILIACEAE	Bajhang
351	KATH000845	<i>Polygonatum singalilense</i> Hara	LILIACEAE	Bajhang
352	KATH000913	<i>Streptopus simplex</i> D. Don	LILIACEAE	Bajhang
353	KATH001187	<i>Aconitum violaceum</i> Jacq.	RANUNCULACEAE	Bajhang
354	KATH001188	<i>Aconitum violaceum</i> Jacq.	RANUNCULACEAE	Bajhang
355	KATH001253	<i>Selinum tenuifolium</i> Wall.	UMBELLIFERAE	Humla
356	KATH001254	<i>Selinum tenuifolium</i> Wall.	UMBELLIFERAE	Humla
357	KATH001255	<i>Selinum tenuifolium</i> Wall.	UMBELLIFERAE	Humla
358	KATH001454	<i>Arisaema concinnum</i> Schott	ARACEAE	Bajhang
359	KATH001532	<i>Arisaema flavum</i> (Forssk.) Schott	ARACEAE	Humla
360	KATH001620	<i>Arisaema jacquemontii</i> Bl.	ARACEAE	Bajhang
361	KATH001621	<i>Arisaema jacquemontii</i> Bl.	ARACEAE	Bajhang
362	KATH001631	<i>Arisaema jacquemontii</i> Blume	ARACEAE	Humla
363	KATH001839	<i>Arisaema utile</i> Hook. f. ex Schott	ARACEAE	Bajhang
364	KATH002114	<i>Hypoxis aurea</i> Lour.	HYPOXIDACEAE	Bajhang
365	KATH002138	<i>Aerides multiflora</i> Roxb.	ORCHIDACEAE	Bajhang
366	KATH002139	<i>Aerides multiflora</i> Roxb.	ORCHIDACEAE	Bajhang
367	KATH002176	<i>Aorchis roborowskii</i> (Max.) Seidenf.	ORCHIDACEAE	Bajhang
368	KATH002281	<i>Calanthe plantaginea</i> Lindl.	ORCHIDACEAE	Bajhang
369	KATH002282	<i>Calanthe plantaginea</i> Lindl.	ORCHIDACEAE	Bajhang
370	KATH002283	<i>Calanthe plantaginea</i> Lindl.	ORCHIDACEAE	Bajhang
371	KATH002296	<i>Cephalanthera ensifolia</i> Richard	ORCHIDACEAE	Bajhang
372	KATH002326	<i>Coelogyne cristata</i> Lindl.	ORCHIDACEAE	Bajhang
373	KATH002329	<i>Coelogyne cristata</i> Lindl.	ORCHIDACEAE	Baitadi
374	KATH002420	<i>Dactylorhiza hatagirea</i> (D. Don.) Soo	ORCHIDACEAE	Humla
375	KATH002602	<i>Eria pubescens</i> (Hook.) Lindl. ex Steud	ORCHIDACEAE	Bajhang
376	KATH002733	<i>Herminium duthiei</i> Hook. f.	ORCHIDACEAE	Humla
377	KATH002742	<i>Herminium josephii</i> Rchb. f.	ORCHIDACEAE	Darchula
378	KATH002779	<i>Herminium monophyllum</i> (D. Don) Hunt & Summer.	ORCHIDACEAE	Baitadi
379	KATH002850	<i>Lusia zelanica</i> Lindl.	ORCHIDACEAE	Baitadi
380	KATH002863	<i>Malaxis acuminata</i> D. Don	ORCHIDACEAE	Bajhang
381	KATH002864	<i>Malaxis cylindrostachya</i> (Lindl.) Kuntze	ORCHIDACEAE	Darchula
382	KATH002888	<i>Neottia listeroides</i> Lindl.	ORCHIDACEAE	Humla
383	KATH002916	<i>Oberonia falconeri</i> Hook. f.	ORCHIDACEAE	Bajhang
384	KATH015276	<i>Leptopus cordifolius</i> Decne.	EUPHORBIACEAE	Bajhang
385	KATH015278	<i>Leptopus cordifolius</i> Decne.	EUPHORBIACEAE	Bajhang
386	KATH015887	<i>Setaria pumila</i> (Poir.) Roem. & Schult.	GRAMINEAE	Darchula
387	KATH015886	<i>Setaria pumila</i> (Poir.) Roem. & Schult.	GRAMINEAE	Darchula
388	KATH015888	<i>Setaria pumila</i> (Poir.) Roem. & Schult.	GRAMINEAE	Darchula
389	KATH015821	<i>Salix lindleyana</i> Wall. ex Anders.	SALICACEAE	Bajhang
390	KATH015799	<i>Salix sclerophylla</i> Anderss.	SALICACEAE	Humla
391	KATH015894	<i>Themeda anathera</i> (Ness) Hack.	GRAMINEAE	Bajhang
392	KATH015891	<i>Themeda hookeri</i> (Griseb.) A. Camus	GRAMINEAE	Humla