

**DIVERSITY OF ANGIOSPERMS AT MACHIGAD FORT, HALASHI, KAHANAPUR,  
BELAGAVI**

**ABSTRACT**

The study of phytodiversity of flora within the fort is important. Fortflora found within the historical forts of Karnataka, India are vital for their rich biodiversity, including many rare and endemic species. Machigad is a place where hill with fort, it about 500 to 800 years ago, which built incomplete and this fort environment support a variety of plant species, which are important for ecological, historical and cultural significance. Using the International Union for Conservation of Nature (IUCN) Red list standard, can evaluate the conservation status of species, by finding rich diversity including many endemic and rare plants needs for specific conservation efforts. With this background, this paper attempts to highlight the role played by Machigad fort, Halasi, Khanapur taluk, Belagavi district, Karnataka. The study record 278 species belonging to 69 families, covering 113 herbs, 41 shrubs, 66 trees, 22 climbers, 15 climbing shrubs, 8 undershrubs, 13 lianas species. This fort flora also supports few useful medicinal plants. Therefore, there is an urgent need to protect the fort flora to sustain the biodiversity.

**KEY WORDS:** Belgavi, Dominant families, Fort flora, Karnataka, IUCN Status, Phytodiversity.

**INTRODUCTION**

The term phytodiversity is the variety of plant species with in a particular region. It also includes different species, genotypes, and habitats, and it plays a crucial role in ecosystem stability. It also functioning as food security, genetic resource, flavours contributing the nutrition and medicinal resources like traditional and modern medicine. Phytodiversity also give ecological, cultural, economic significance. It mainly depends on biotic, abiotic factors. The biotic factors mainly includes species interaction like competition, predation etc, community composition and abiotic factors like climate regulation, habitat heterogeneity. (Rawat & Khare, 2010). Conservation of phytodiversity involves a combination of strategies and practices aimed to protecting plant species, their genetic variation and ecosystem. (UNBL, 2022).

Flora of Karnataka written by Saldanaha (1984 and 1996) has reported 170 families and 3400 species; Flora of Karnataka Analysis by Sharma *et al.*, (1984) has reported the 3924 species under the 1323 genera these are belonging to 199 families of plant; Flora of Eastern Karnataka written by N. P. Singh (1988) reported the 140 families of plant this families contain 1421 species, 696 genera; Flora of Gulberga District by Seetheram *et al.*, (2000) reported the 100 plant families contain 300 genera,

600 species; Flora of Anshi National Park by Laxminarasimhan and Puneekar(2011) have reported the 127 plant families and these families contain 923 species, 570 genera; Flora of Gadag District by Kotresha and Kambhar(2016) have reported the 113 plant families and contain 815 species, 518 genera; Flora of Bidar District, karnatak by Seetharam *et al.*, (2018) have reported the 100 plant families and contain 900 species, 300 genera; Flora of Kolar District by Yoganarsimhan *et al.*, (2018) have reported the 118 plant families and contain 854 species, 467 genera; Flora of Karnataka, Vol. 3 by Lakshminarasimhan *et al.*, (2019) have reported 36 plant families and contain 1167 species, 360 genera; Flora of Karnataka A Checklist, Vol. 2: Gymnosperms and Angiosperms by Sanjappa & Sringshwara (2019) have reported the 196 plant families and contain 4853 species, 1543 genera; Studies on Phytodiversity of Mallikarjun hill adi: A Sacred grove in Karnataka, India by Varsha and Sanjay(2023) recorded 160 species, 133 genera and 58 families; Phytodiversity studies in Sri Ramathirth Sacred grove, Halasi, Khanapur taluk, Belagavi district, Karnatakaby Yelvattimath and Kotresh (2011) reported 274 species, 215 genus, 80 species; Flowering plants of Chikodi hills Belagavi, Karnataka, India by Dalaviet *et al.*, (2022) recorded 584 species, 383 genus, 95 families.

## **MATERIALS AND METHOD**

Machigad is small village located between north latitudes 15.3115° and east longitudes 74.7366° according to the Survey of India. It is 41 kms from Belagavi, 16 kms from Khanapur taluk. The place with hill with fort, this fort about 500 to 800 years ago. Halsi, Nandhgad and Ramtheerth etc. are villages surrounded by Machigad (Fig. 01). The geographical area of this area about 2.0284 Sq.Km. To collect the plant specimen for identification and preparation of herbarium. Four seasons will be consider for study, they are pre-monsoon, monsoon, winter and summer. Pre monsoon include April-June showers. Monsoon includes June-September showers. Winter December to Januray. Summer includes February-May. Specimen identification with the following flora (Cooke, 1906; Gamble, 1928; Ramaswamy and Razi, 1973; Saldanha and Nicolson, 1976; Saldanha, 1984 & 1996; Sharma *et al.*, 1984; Singh, 1988; Seetharam *et al.*, 2000; Bhat, 2003; Manjunath *et al.*, 2004; Bhaskar & Kushalappa, 2014; Bhat, 2014; Kotresha and Kambhar, 2016; Seetharam *et al.*, 2018; Yoganarasimhan et al. 2018; Sanajappa and Sringshwara, 2019). The specimen will pressed and dried with the help of Rao and Jain method (1976). The dried specimens will be poisoned with alcohol and mercuric chloride mixture (2%) to keep away from fungal attack and insects (Ravindrath and Premnath, 1977). They are submitted to the Herbarium of Karnataka Science College (HKCD) for future references.

## **RESULTS AND DISCUSSION**

A total of 278 species has been collected during the survey from December 2023 to October 2024, which includes winter, summer and pre-monsoon seasons. The species list are arranged alphabetically along with habit, IUCN status, flowering season, common name and nativity. Habit wise analysis shows that herbs are predominate with 113 species followed by trees with 66 species, shrubs 41 species, climbers 22 species, undershrubs are 8 species, climbing shrubs 15 species, liana 13 species(Fig. 02). Out of the 278 species found, the first ten dominant families constitute 154 species.

Of these Fabaceae is most dominant family, comprising 34 species, followed by Malvaceae (19), Asteraceae (18), Orchidaceae (17), Apocyanaceae (13), Acanthaceae (12), Rubiaceae (10), Commelinaceae (09), Poaceae (08), Combretaceae and Lamiaceae 7 species each (Fig. 03). The remaining families are Menispermaceae, Sapindaceae and Loranthaceae represented by 6 species each, followed by Vitaceae, Convolvulaceae, Asparagaceae and Phyllanthaceae represented by 5 species each. Cyperaceae, Dioscoreaceae, Colchicaceae represented by 4 species each. Six families are represented by 3 species each, they are Orobanchaceae, Anacardiaceae, Gentianaceae, Bignoniaceae, Moraceae and Rhamnaceae. Eleven families are represented by 2 species, they are Amaranthaceae, Meliaceae, Oxalidaceae, Salicaceae, Celastraceae, Rutaceae, Cucurbitaceae, Ebenaceae, Verbenaceae, Oleaceae and Santalaceae. There are 31 families represent single species each, Annonaceae, Araceae, Aristolochiaceae, Malpighiaceae, Nyctaginaceae, Solanaceae, Capparaceae, Lecythidaceae, Ranunculaceae, Boraginaceae, Hypoxidaceae, Zingiberaceae, Droseraceae, Costaceae, Ulmaceae, Molluginaceae, Balsaminaceae, Crassulaceae, Lythraceae, Linaceae, Onagraceae, Euphorbiaceae, Melastomataceae, Passifloraceae, Apiaceae, Plumbaginaceae, Polygonaceae, Smilacaceae, Myrtaceae, Zygophyllaceae and Cannabaceae (Fig. 04).

## CONCLUSION

The phytodiversity work reveals about 278 Angiosperms, among them 69 family species have collected from Machigad hill, Halasi, Kanakpur taluk, Belagaum district in the month of December 2023 to October 2024. Out of 278 angiosperms consist about 113 species of herbs, 41 species of shrubs, 66 species of trees, 22 species of climbers, 15 species of climbing shrubs and 8 species are Under shrubs, 13 liana. In that few are recorded as an endemic species. The forest is moist deciduous to semi evergreen type of forest. It has major diversity of herbs, shrubs and trees respectively; this forest is not disturbed from human interference. The plant diversity indicate the richness of vegetation. This work is helpful for the students, research scholars, educational institutions and forest department. The Machigad forest is need to conserve the endemic plants and for the future generation. Since the work was under taken for 9-10 months is not sufficient to come to through conclusions, future investigations on this Machigad forest is required.

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**Table 1: Diversity of Angiosperms at Machigad Fort, Halshi, Khanapur, Belgavi:**

Sl.no	Botanical name	Family	Habit	IUCN Status	Flowering and fruiting season	Common name	Nativity
1	<i>Acampe praemorsa</i> (Roxb.) Blatt. & McC.	Orchidaceae	H	NE	April-December	Clipped acampe, Brittle orchid, Seete hoo	I
2	<i>Acanthospermum hispidum</i> DC.	Astraceae	H	NE	January-July	Bristly Starbur, Kadale mullu	E
3	<i>Acilepis heynei</i> (Bedd. Ex Gamble) H. Rob. & Skvarla	Astraceae	S	NE	November-May	Acilepis Plant	I
4	<i>Acmella calva</i> (DC.) R.K. Jansen	Astraceae	H	NE	February-December	Paracress, Toothache plant	I
5	<i>Adina cordifolia</i> (Roxb.) Brandis	Rubiaceae	T	LC	October-June	Yellow teak, Arisina tega	I
6	<i>Aeginetia indica</i> L.	Orobanchaceae	H	LC	July-December	Forest Ghost Flower	I
7	<i>Aerides maculosum</i> Lindl.	Orchidaceae	H	NE	June-October	Fox brush orchid, Cat's tail orchid, Draupadi hoo	I
8	<i>Ageratum conyzoides</i> L.	Astraceae	H	LC	Throughout year	Goat weed, Jangli pudina	E
9	<i>Albizia odoratissima</i> (L.f.) Benth.	Fabaceae	T	LC	May-February	Black Siris, Kaadu bage, Kala siris	I
10	<i>Allophylus cobbe</i> (L.) Forsyth f.	Sapindaceae	T	LC	May-January	Indian Allophylus, Kasaballi	I
11	<i>Alloteropsis cimicina</i> (L.) Stapf	Poaceae	H	NE	June-September	Summer Grass, Bug-seed grass	I
12	<i>Alternanthera pungens</i> Kunth	Amaranthaceae	H	NA	Throughout year	Paper Thron, Mullu honagonne	E
13	<i>Amaranthus viridis</i> L.	Amaranthaceae	H	NE	December-April	Green Amaranth. Pigweed, Keresoppu	E
14	<i>Ampelocissus indica</i> (L.) Planch.	Vitaceae	C	NE	March-Septmber	Red-Stemmed Wild Grape-Vine, Chemballi	I
15	<i>Anacardium occidentale</i> L.	Anacardiaceae	T	LC	December-	Cashew, Godambi, Kaju	E

					May		
16	<i>Andrographis paniculata</i> (Burm.f.) Wall. ex Nees	Acantaceae	H	NE	March-December	Green Chiretta, Nelabevu	I
17	<i>Annona squamosa</i> L.	Annonaceae	T	LC	March-December	Sugar Apple	E
18	<i>Apluda mutica</i> L.	Poaceae	H	NE	Throughout year	Mauritian Grass, Kaadu hanchi hullu	I
19	<i>Argyreia</i> Lour.	Convolvulaceae	C, S	NT,EN,DD,NE	June-September		I
20	<i>Arisaema tortuosum</i> (Wall.) Schott	Araceae	H	NE	May-November	Whipcord Cobra Lily	I
21	<i>Aristolochia indica</i> L.	Aristolochiaceae	C	NE	July-February	Indian Birthwort, Duck flower, Ishwar balli	I
22	<i>Asparagus racemosus</i> Willd.	Asparagaceae	Cs	NE	July-December	Buttermilk root, Satawari	I
23	<i>Aspidopterys cordata</i> (B.Heyne ex Wall.) A.Juss.	Malpighiaceae	Cs	NE	August-January	Bokadvel	I
24	<i>Asystasia gangetica</i> (L.) T.Anderson	Acantaceae	H	NE	August-December	Ganges Primrose, Chinese violet, Lavangavalli	I
25	<i>Azanza lampas</i> (Cav.) Alef.	Malvaceae	H	LC	September-February	Wild cotton	I
26	<i>Azadirachta indica</i> A.Juss.	Meliaceae	T	LC	January-April	Neem	I
27	<i>Bambusa vulgaris</i> Schrad. Ex J. C. Wendl	Poaceae	S	NE	July-February	Common Bamboo, Golden Bamboo	E
28	<i>Barleria prionitis</i> L.	Acantaceae	S	LC	August-March	Porcupine Flower, Haladi gorate	I
29	<i>Bauhinia purpurea</i> L.	Fabaceae	T	LC	February-December	Butterfly tree, Kanchuvaala	I
30	<i>Bidens biternata</i> (Lour.) Merr. & Sherff	Astraceae	H	NE	Throughout year	Yellow blackjack	I
31	<i>Biophytum sensitivum</i> (L.) DC.	Oxalidaceae	H	NE	Throughout	Tropical Little tree,	I

					year	Horamuchaka	
32	<i>Blainvillea acmella</i> (L.) Philipson	Astraceae	H	LC	September-April	Spot-me flower	I
33	<i>Blepharis maderaspatensis</i> (L.) B. Heyne ex Roth	Acantaceae	H	NE	August-March	Creeping Blepharis, Koodali soppu	I
34	<i>Boerhavia diffusa</i> L.	Nyctaginaceae	H	NE	Throughout year	Red hogweed, Wineflower	I
35	<i>Bombax ceiba</i> L.	Malvaceae	T	LC	January-May	Silk cotton tree, Kempu booraga	I
36	<i>Breynia retusa</i> (Dennst.) Alston	Phyllanthaceae	S	LC	February-December	Cup Saucer plant, Gurige	I
37	<i>Bridelia stipularis</i> (L.) Blume	Phyllanthaceae	S	LC	May-March	Climbing Bridelia, Akshathe balli	I
38	<i>Brugmansia arborea</i> (L.) Sweet	Solanaceae	S	EW	December-March	Angel's trumpet	E
39	<i>Buchnera hispida</i> Buch.-Ham. Ex D. Don	Orobanchaceae	H	NE	September-April	Karanji	I
40	<i>Bulbostylis thouarsii</i> (Roem. & Schult.) Lye ex Veldkamp & Verloove	Cyperaceae	H	NE	July-November	Bulbostylis	I
41	<i>Butea monosperma</i> (Lam.) Taub.	Fabaceae	T	LC	January-July	Flame of forest, Muttuga	I
42	<i>Calotropis gigantea</i> (L.) W.T. Aiton	Apocynaceae	S	NE	Throughout year	Crown flower, Giant Milk-Weed, Ekke gida	I
43	<i>Canscora diffusa</i> (Vahl) R.Br. ex Roem. & Schult	Gentianaceae	H	NE	October-April	Spreading Canscora	I
44	<i>Canscora perfoliata</i> Lam.	Gentianaceae	H	NE	October-April	Pierced Leaf Canscora	I
45	<i>Canthium coromandelicum</i> (Burm.f.) Alston	Rubiaceae	S	NE	April-June	Carray cheddie, Kaare gida	I
46	<i>Capparis zeylanica</i> L.	Capparaceae	Cs	NE	January-October	Ceylon caper, Govinda phala	I
47	<i>Careya arborea</i> Roxb.	Lecythidaceae	T	NE	March-August	Wild Guava, Ceylon Oak	I
48	<i>Cardiospermum halicacabum</i> L.	Sapindaceae	C	LC	April-	Balloon vine, Heart pea	I



					November		
49	<i>Carissa carandas</i> L.	Apocynaceae	S	DD	March-October	Kavali hoo/kai, Gariche	I
50	<i>Carissa spinarum</i> L.	Apocynaceae	S	LC	February-July	Wild karanda, Chikka kavali	I
51	<i>Casearia tomentosa</i> Roxb.	Salicaceae	T	LC	February-August	Toothed leaf chilla	I
52	<i>Cassia fistula</i> L.	Fabaceae	T	LC	March-December	Golden shower tree	I
53	<i>Catharanthus pusillus</i> (Murray) G. Don	Apocynaceae	H	NE	July-January	Tiny Periwinkle	I
54	<i>Catunaregam spinosa</i> (Thunb.) Tirveng.	Rubiaceae	S	LC	Throughout year	Mountain Pomegranate	I
55	<i>Celastrus paniculatus</i> Willd.	Celastraceae	L	NE	March-December	Oriental bittersweet, Karigonne	I
56	<i>Cenchrus ciliaris</i> L.	Poaceae	H	LC	July-December	Buffel Grass	I
57	<i>Centranthera indica</i> (L.) Gamble	Orbanchaceae	H	LC	July-December	Indian Spur Anther flower	I
58	<i>Ceropegia bulbosa</i> Roxb.	Apocynaceae	C	NE	July-December	Bulbous Ceropegia	I
59	<i>Chamaecrista absus</i> (L.) H.S. Irwin & Barneby	Fabaceae	H	LC	August-February	Tropical Sensitive Pea, Pig's senna	I
60	<i>Chamaecrista mimosoides</i> (L.) Greene	Fabaceae	H	LC	July-February	Feather-leaved Cassia, Nela tangadi	I
61	<i>Chloris barbata</i> Sw.	Poaceae	H	NE	August-December	Swollen finger grass, Feather grass	I
62	<i>Chlorophytum laxum</i> R.Br.	Asparagaceae	H	NE	May-December	Zebra Grass, False lily turf	I
63	<i>Chlorophytum nimmonii</i> Dalzell	Asparagaceae	H	NE	August-September	Lax-Flowered Chlorophytum	I
64	<i>Chloroxylon swietenia</i> DC.	Rutaceae	T	VU	January-August	Ceylon Satinwood	I

65	<i>Chromolaena odorata</i> (L.) R.M.King & H. Rob.	Astraceae	S	NE	October-May	Siam weed, Bitter bush	E
66	<i>Cipadessa baccifera</i> (Roxb. ex Roth) Miq.	Meliaceae	S	LC	March-November	Ranabili, Sidigolu	I
67	<i>Cissampelos pareira</i> L.	Menispermiceae	C	NE	April-October	Velvet Bean, False Pareira Brava	I
68	<i>Cissus repanda</i> (Wight & Arn.) Vahl	Vitaceae	Cs	NE	February-September	Pani Bel, Mudi balli	I
69	<i>Cissus vitiginea</i> L.	Vitaceae	C	NE	May-November	South Indian Treebine	I
70	<i>Clematis zeylanica</i> (L.) Poir	Ranunculaceae	L	NE	September-March	Ceylon Clematis, Agniballi	I
71	<i>Clerodendrum infortunatum</i> L.	Lamiaceae	S	LC	December-February	Hill Glory Bower, Ibbane	I
72	<i>Clitoria ternatea</i> L.	Fabaceae	C	NE	March-October	Butterfly Pea, Shankha pushpi	E
73	<i>Coccinia grandis</i> (L.) Voigt	Cucurbitaceae	C	NE	Throughout year	Ivy Gourd, Tondikayi	I
74	<i>Cocculus hirsutus</i> (L.) W.Theob.	Menispermiceae	Cs	NE	Throughout year	Broom Creeper, Ink berry	I
75	<i>Coleus barbatus</i> (Andrews) Benth. ex G.Don	Lamiaceae	H	NE	October-February	Indian Coleus	I
76	<i>Coleus strobilifer</i> (Roxb.) A.J.Paton	Lamiaceae	H	NE	October-February	Thick leaf lavender, Doddapatre	I
77	<i>Combretum albidum</i> G.Don	Combretaceae	L	NE	February-May	Piluki	I
78	<i>Commelina benghalensis</i> L.	Commelinaceae	H	LC	July-November	Bengal Dayflower	I
79	<i>Commelina diffusa</i> Burm.f.	Commelinaceae	H	LC	April-November	Climbing Day Flower, Creeping dayflower	I
80	<i>Commelina suffruticosa</i> Blume	Commelinaceae	H	NE	June-December	Shrubby Dayflower, Spiderwort	I
81	<i>Cottonia peduncularis</i> (Lindl.) Rchb.f.	Orchidaceae	H	NE	March-August	Bee Orchid	I

82	<i>Cordia dichotoma</i> G.Forst.	Boraginaceae	T	LC	January-September	Indian cherry, Kaaduchalle	I
83	<i>Coscinium fenestratum</i> (Gaertn.) Colebr.	Menispermiceae	L	DD	August-October	Flase calumba	I
84	<i>Cryptolepis buchananii</i> R.Br. ex Roem. & Schult.	Apocynaceae	Cs	NE	March-September	Wax Leaved Climber	I
85	<i>Cryptostegia grandiflora</i> Roxb. ex R.Br.	Apocynaceae	L	NE	Throughout year	Rubber vine	E
86	<i>Curculigo orchioides</i> Gaertn.	Hypoxidaceae	H	NE	April-December	Golden Eye Grass, Orchid palm grass	I
87	<i>Curcuma aromatica</i> Salisb.	Zingiberaceae	H	NE	April-December	Wild turmeric, Aromatic turmeric	I
88	<i>Cyanotis axillaris</i> (L.) D.Don ex Sweet	Commelinaceae	H	LC	July-January	Creeping Cradle Plant	I
89	<i>Cyanotis fasciculata</i> (B.Heyne ex Roth) Schult. & Schult.f.	Commelinaceae	H	LC	August-January	Nilawanti	I
90	<i>Cyanotis tuberosa</i> (Roxb.) Schult. & Schult.f.	Commelinaceae	H	NE	August-December	Sahyadri Dew-Grass	I
91	<i>Cyclea peltata</i> (Burm.f.) Hook.f. & Thomson	Menispermiceae	C	NE	November-June	Indian moon seed	I
92	<i>Cyperus mindorensis</i> (Steud.) Huygh	Cyperaceae	H	NE	June-September	White Water Sedge, Whitehead spikesedge	I
93	<i>Cyperus paniceus</i> (Rottb.) Boeckeler	Cyperaceae	H	LC	August-November	Pongorai	I
94	<i>Cyperus pulchellus</i> R.Br.	Cyperaceae	H	LC	October-November	Panicled flat-sedge	E
95	<i>Cyphostemma auriculatum</i> (Roxb.) P.Singh & B.V.Shetty	Vitaceae	Cs	DD	May-October	Eared Cyphostemma	I
96	<i>Dalbergia lanceolaria</i> L.f.	Fabaceae	T	LC	March-July	Lanceleaf Rosewood, Bili beete, Belaga	I
97	<i>Dalbergia latifolia</i> Roxb	Fabaceae	T	VU	July-February	Black Rosewood, Beete, Kala shisham	I
98	<i>Dendrobium macrostachyum</i> Lindl.	Orchidaceae	H	LC	April-July	Fringed tree dendrobium,	I

						Large spike dendrobium	
99	<i>Dendrobium ovatum</i> (L.) Kranzel.	Orchidaceae	H	NE	September-March	Green lipped dendrobium	I
100	<i>Dendrophthoe falcata</i> (L.f.) Ettingsh.	Loranthaceae	H	NE	December-May	Honey Suckle Mistletoe, Neem mistletoe	I
101	<i>Dicliptera foetida</i> (Forssk.) Blatter	Acanthaceae	H	NE	November-April	Stinking foldwing	I
102	<i>Dioscorea bulbifera</i> L.	Dioscoreaceae	C	NE	August-December	Air yam, Bitter yam, Wild yam	I
103	<i>Dioscorea oppositifolia</i> L.	Dioscoreaceae	C	NE	July-March	Cinnamon Vine, Hakki genasu	I
104	<i>Dioscorea pentaphylla</i> L.	Dioscoreaceae	C	NE	August-December	Five leaf yam, Kaadu gumbala	I
105	<i>Diospyros melanoxylon</i> Roxb.	Ebenaceae	T	NE	January-June	Coromandel Ebony, Abasani, Balai	I
106	<i>Diospyros montana</i> Roxb.	Ebenaceae	T	NE	March-October	Bombay Ebony, Kalnandi	I
107	<i>Dipcadi montanum</i> (Dalzell) Baker	Asparagaceae	H	NE	June-October	Mountain Dipcadi	I
108	<i>Diplocyclos palmatus</i> (L.) C. Jeffrey	Cucurbitaceae	C	NE	August-January	Lollipop Climber, Shivalinga balli	I
109	<i>Dolichandrone falcata</i> (Wall. ex DC.) Seem.	Bignoniaceae	T	LC	January-November	Medhshingi, Goodumurki	I
110	<i>Drimia indica</i> (Roxb.) Jessop	Asparagaceae	H	NE	December-May	Indian Squill	I
111	<i>Drosera indica</i> L.	Droseraceae	H	LC	August-March	Flycatcher, Sundew, Dew plant	I
112	<i>Duranta erecta</i> L.	Verbenaceae	S	LC	Throughout year	Sky flower, Golden dew drop, Pigeon Berry	E
113	<i>Echinochloa colonum</i> (L.) Link	Poaceae	H	LC	July-October	Jungle Rice, Shama millet, Kaadu haaraka	I
114	<i>Eclipta prostrata</i> (L.) L.	Astraceae	H	LC	Throughout year	False Daisy, Trailing eclipta, Kaadige garige	E

115	<i>Elephantopus scaber</i> L.	Astraceae	H	NE	August- January	Prickly leaved elephant foot, Hakkarike	I
116	<i>Epaltes divaricata</i> (L.) Cass.	Astraceae	H	LC	October-April	Narrow -Leaf Epaltes	I
117	<i>Eranthemum roseum</i> (Vahl) R.Br.ex Roem. & Schult.	Acantaceae	S	LC	November- January	Kappukarni, Blue eranthemum	I
118	<i>Erinocarpus nimmonii</i> J.Graham	Malvaceae	T	VU	September- January	Jangli Bhendi	I
119	<i>Eschenbachia stricta</i> (Willd.) Raizada	Astraceae	H	NE	September- April	Erect Horseweed	I
120	<i>Eulophia nuda</i> Lindl.	Orchidaceae	H	NE	April-July	Spectacular eulophia	I
121	<i>Exacum petiolare</i> Griseb.	Gentianaceae	H	NE	September- December	Stalked Persian Violet, Dodda chirayatha	I
122	<i>Ficus arnottiana</i> (Miq.) Miq.	Moraceae	T	NE	June- September	Indian Rock Fig, Rock pipal, Kaadu aswatha	I
123	<i>Ficus benghalensis</i> L.	Moraceae	T	NE	Throughout year	Banyan tree, Aaladamara	I
124	<i>Ficus religiosa</i> L.	Moraceae	T	LC	November- February	Peepal Tree, Sacred fig, Aralimara	I
125	<i>Flacourtia indica</i> (Burm.f.) Merr.	Salicaceae	S	LC	December- August	Indian plum, Hettari mullu	I
126	<i>Flueggea leucopyrus</i> Willd.	Phyllanthaceae	S	LC	July- November	Bushweed, Indian snow berry, Bilihuli	I
127	<i>Geissaspis cristata</i> Wight & Arn.	Fabaceae	H	LC	July-January	Eyelashes Shell Beans	I
128	<i>Gloriosa superb</i> L.	Colchicaceae	C	LC	July- November	Glory Lily, Tiger claw, Agnisikhe	I
129	<i>Gmelina asiatica</i> L.	Lamiaceae	T	LC	May-February	Asian Bushbeech, Oval- leafed gmelina	I
130	<i>Grewia flavescens</i> Juss.	Malvaceae	Cs	LC	June-February	Donkey Berry, Sandpaper raisin	I
131	<i>Grewia hirsuta</i> Vahl	Malvaceae	S	LC	June- December	Nagbala Crossberry	I
132	<i>Grewia tiliifolia</i> Vahl	Malvaceae	T	LC	Throughout	Dhaman	I

					year		
133	<i>Grona trifolia</i> (L.) H. Ohashi & K. Ohashi	Fabaceae	H	NE	Throughout year	Creeping tick trefoil, Kaadu menthe	I
134	<i>Gymnema sylvestre</i> (Retz.) R. Br. ex Sm	Apocynaceae	L	NE	August-March	Cowplant, Sappe soppu	I
135	<i>Gymnosporia senegalensis</i> (Lam.) Loes.	Celastraceae	S	LC	September-February	Red Spike Thorn	I
136	<i>Habenaria furcifera</i> Lindl.	Orchidaceae	H	NE	August-November	Forked habenaria	I
137	<i>Habenaria grandifloriformis</i> Blatt. & McCann	Orchidaceae	H	NT	June-October	Single leaved hebenaria, Angel Orchid	I
138	<i>Habenaria marginata</i> Colebr.	Orchidaceae	H	NE	July-November	Golden yellow habenaria	I
139	<i>Helicanthes elastica</i> (Desr.) Danser	Loranthaceae	H	NE	April-December	Rubbery Mango Mistletoe	I
140	<i>Helicteres isora</i> L.	Malvaceae	S	LC	April-January	East-Indian srew tree, Murugikaayi gida	I
141	<i>Helixanthera obtusata</i> (Wall. ex Wight & Arn.) Danser	Loranthaceae	H	NE	April-June	Bluntleaf Mistletoe	I
142	<i>Hellenia speciosa</i> (J.Koenig) S.R.Dutta	Costaceae	H	LC	June-September	Crepe Ginger, Cane reed, Nayikabbu	I
143	<i>Hemidesmus indicus</i> (L.) R. Br.	Apocynaceae	C	NE	August-February	Indian Sarsaparilla, Anantamula	I
144	<i>Heterophragma quadriloculare</i> (Roxb.) K. Schum	Bignoniaceae	T	LC	December-February	Waras, Adavi nugge	I
145	<i>Holarrhena pubescens</i> Wall .ex G.Don	Apocynaceae	T	LC	March-October	Tellicherry tree, Ester tree	I
146	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	Ulmaceae	T	LC	December-June	Indian Elm, Jungle cork tree, Tapasi mara	I
147	<i>Hultholia mimosoides</i> (Lam.) Gagnon & G.P.Lewis	Fabaceae	Cs	LC	October-February	Mimosa thorn, Eejimullu	I
148	<i>Hygrophila ringens</i> (L.) R. Br. ex Steud.	Acantaceae	H	NE	October-March	Erect Hygrophila	I

149	<i>Hymenodictyon obovatum</i> Wall.	Rubiaceae	T	LC	August-December	Kadwa Sirid, Bogimara	I
150	<i>Hypertelis cerviana</i> (L.) Thulin	Molluginaceae	H	NE	August-March	Thread-Stem Carpetweed	E
151	<i>Ichnocarpus frutescens</i> (L.) W.T.Aiton	Apocynaceae	L	NE	August-December	Black Creeper, Halugenasu	I
152	<i>Impatiens rupicola</i> (Hook.f.) Bhaskar	Balsaminaceae	H	NE	July-October	Rock Balsam	I
153	<i>Imperata cylindrica</i> (L.) Raeusch.	Poaceae	H	LC	March-November	Cogon grass	E
154	<i>Indigofera astragalina</i> DC.	Fabaceae	H	NE	August-February	Silky Indigo	I
155	<i>Indigofera trifoliata</i> L.	Fabaceae	H	NE	September-January	Three-Leaf Indigo	I
156	<i>Indigofera tsiangiana</i> Metcalf	Fabaceae	H	NE	July-January	Nine-Leaved Indigo, Chenna gida	I
157	<i>Iphigenia indica</i> (L.) A. Gray ex Kunth	Colchicaceae	H	LC	July-September	Indian Grass Lily, Kaadu bellulli	I
158	<i>Iphigenia pallida</i> Baker	Colchicaceae	H	NE	July-September	Pale grass lily	I
159	<i>Iphigenia stellata</i> Blatt.	Colchicaceae	H	EN	June-September	Star Grass Lily	I
160	<i>Ipomoea cairica</i> (L.) Sweet	Convolvulaceae	Cs	LC	Throughout year	Cairo Morning Glory	I
161	<i>Ipomoea nil</i> (L.) Roth	Convolvulaceae	C	NE	August-April	Blue morning glory	E
162	<i>Ipomoea obscura</i> (L.) Ker Gawl.	Convolvulaceae	C	NE	September-March	Obscure Morning Glory	I
163	<i>Ipomoea rubriflora</i> O'Donell	Convolvulaceae	C	NE	September-March	Redstar, Red morning glory	E
164	<i>Jasminum malabaricum</i> Wight	Oleaceae	Cs	NE	February-September	Malabar Jasmine, Wild Jasmine	I
165	<i>Jasminum sambac</i> (L.) Aiton	Oleaceae	Cs	NE	January-July	Arabian Jasmine, Gundu Mallige	I

166	<i>Justicia adhatoda</i> L.	Acantaceae	S	LC	October-March	Malabar nut, Karchi	I
167	<i>Kalanchoe olivacea</i> Dalzell	Crassulaceae	H	NE	January-April	Indian Kalanchoe	I
168	<i>Kydia calycina</i> Roxb.	Malvaceae	T	LC	September-February	Kydia, Kolibende	I
169	<i>Lagerstroemia microcarpa</i> Wight	Lythraceae	T	LC	June-February	Bean teak, Bilinandi	I
170	<i>Lannea coromandelica</i> (Houtt.) Merr.	Anacardiaceae	T	LC	January-July	Indian Ash Tree	I
171	<i>Lantana camara</i> L.	Verbenaceae	S	NE	Throughout year	Lantana, Kasooti hoo, Chaduranga	E
172	<i>Leea asiatica</i> (L.) Ridsdale	Vitaceae	S	LC	June-September	Asiatic Leea	I
173	<i>Linum mysorensense</i> B. Heyne ex Benth	Linaceae	H	NE	September-January	Mysore Flax, Kaadu agasebija	I
174	<i>Ludwigia adscendens</i> (L.) H.Hara	Onagraceae	H	LC	December-July	Water Primrose, Neerdantu	I
175	<i>Luisia zeylanica</i> Lindl	Orchidaceae	H	NE	February-June	Cylindrical-leaf luisia	I
176	<i>Macrosolen trigonus</i> (Wight & Arn.) Tiegh.	Loranthaceae	S	NE	May-February	Three-angled mistletoe	I
177	<i>Mallotus philipensis</i> (Lam.) Mull.Arg.	Euphorbiaceae	T	LC	June-March	Kamala tree, Kunkumada mara	I
178	<i>Melochia corchorifolia</i> L.	Malvaceae	H	LC	July-April	Chocolate Weed, Bettadatutti mara	I
179	<i>Mesosphaerum suaveolens</i> (L.) Kuntze	Lamiaceae	S	NE	Throughout year	American Mint, Ganga tulasi	E
180	<i>Meyna laxiflora</i> Robyns	Rubiaceae	T	NE	January-August	Muyna, Achura mullu	I
181	<i>Microcos paniculata</i> L.	Malvaceae	S	LC	August-November	Elm-leaf grewia, Majjige soppu	I
182	<i>Mimosa pudica</i> L.	Fabaceae	H	LC	November-May	Touch me not, Muttidare muni, Olamucchiga	E
183	<i>Mitragyna parvifolia</i> (Roxb.) Korth	Rubiaceae	T	LC	March-	True Kadamba, Kaim	I



					December		
184	<i>Moullava spicata</i> (Dalzell ex Wight) Nicolson	Fabaceae	Cs	NE	October-March	Candy Corn Plant	I
185	<i>Mucuna pruriens</i> (L.) DC.	Fabaceae	L	LC	September-March	Velvet Bean, Cowitch	I
186	<i>Murdannia crocea</i> (Griff.) Faden	Commelinaceae	H	NE	August-October	Ochre Dewflower	I
187	<i>Murdannia loriformis</i> (Hassk.) R.S.Rao & Kammathy	Commelinaceae	H	NE	August-December	Strap-Leaf Dewflower	I
188	<i>Murdannia semiteres</i> (Dalzell) Santapau	Commelinaceae	H	LC	July-December	Pricked Dewflower	I
189	<i>Nervilia infundibulifolia</i> Blatt. & McCann,	Orchidaceae	H	NE	May-August	Funnel-leaf nervilia	I
190	<i>Nervilia plicata</i> (Andrews) Schltr.	Orchidaceae	H	NE	February-August	Pleated leaf nervilia	I
191	<i>Nervilia simplex</i> (Thouars) Schltr.	Orchidaceae	H	NE	May-June	Trembling Nervilia, Ondelee thaavare	I
192	<i>Neuracanthus tetragonostachyus</i> Nees	Acantaceae	H	NE	June-September	Three veined neuracanthus, Nili huuvu kaddi	I
193	<i>Oberonia falconeria</i> Hook.f.	Orchidaceae	H	NE	September-June	Limey oberonia	I
194	<i>Osbeckia muralis</i> Naudin	Melastomataceae	H	NE	August-November	Wall Osbeckia	I
195	<i>Oxalis corniculata</i> L.	Oxalidaceae	H	NE	Throughout year	Creeping Wood Sorrel, Neerugoli	I
196	<i>Paracalyx scariosus</i> (Roxb.) Ali	Fabaceae	L	NE	January-May	Indian husk pea, Kadlenaru	I
197	<i>Parasopubia delphiniifolia</i> (L.) H.P.Hofm. & Eb.Fisch.	Orbanchaceae	S	NE	July-January	Common sopubia	I
198	<i>Parthenium hysterophorus</i> L.	Astraceae	S	NE	Throughout year	Carrot grass, Congress grass	E
199	<i>Passiflora foetida</i> L.	Passifloraceae	Cs	NE	June-	Common Passion,	E

					December	Stinking passion flower	
200	<i>Pavetta crassicaulis</i> Bremek.	Rubiaceae	T	LC	June-December	Papari	I
201	<i>Pavetta indica</i> L.	Rubiaceae	T	LC	May-November	Indian pavetta	I
202	<i>Peristylus plantagineus</i> (Lindl.) Lindl.	Orchidaceae	H	NE	July-December	Plantain peristylus	I
203	<i>Phyllanthus emblica</i> L.	Phyllanthaceae	T	LC	October-May	Indian Gooseberry, Amlika, Bettada nelli kaayi	I
204	<i>Phyllanthus fraternus</i> G. L. Webster	Phyllanthaceae	H	NE	April-January	Gulf leaf flower, Nelaneli	E
205	<i>Phyllocephalum phyllolaenum</i> (DC.) Narayana	Asteraceae	H	NE	September-November	Broad-leafed phyllolaenum	I
206	<i>Piliostigma malabaricum</i> (Roxb.) Benth.	Fabaceae	T	LC	October-November	Malabar Bauhinia, Basavanapaada	I
207	<i>Pimpinella heyneana</i> (DC.) Benth. & Hook.f.	Apiaceae	H	NE	August-March	Selvanthachedi	I
208	<i>Plumbago zeylanica</i> L.	Plumbaginaceae	Us	NE	Throughout year	White leadwort, Chitrak, Chitramulike	I
209	<i>Polhillides velutina</i> (Willd.) H. Ohashi & K. Ohashi	Fabaceae	Us	NE	September-June	Velvet-leaf desmodium	I
210	<i>Polygonum plebeium</i> R.Br.	Polygonaceae	H	LC	December-June	Small knotweed, Kempu nela akki	I
211	<i>Pongamia pinnata</i> (L.) Pierre	Fabaceae	T	LC	February-October	Pongam tree, Honge mara	I
212	<i>Rhynchostylis retusa</i> (L.) Blume,	Orchidaceae	H	NE	May-December	Foxtail orchid, Blunt rhychostylis	I
213	<i>Rothea serrata</i> (L.) Steane & Mabb.	Lamiaceae	S	NE	June-February	Blue fountain bush	I
214	<i>Rungia muralis</i> Royle ex Nees	Acantaceae	H	NE	November-April	Wall Rungia	I
215	<i>Sapindus emarginatus</i> Vahl	Sapindaceae	T	NE	February-December	Notched leaf soapnut, Antuvaala, Norekaayi	I

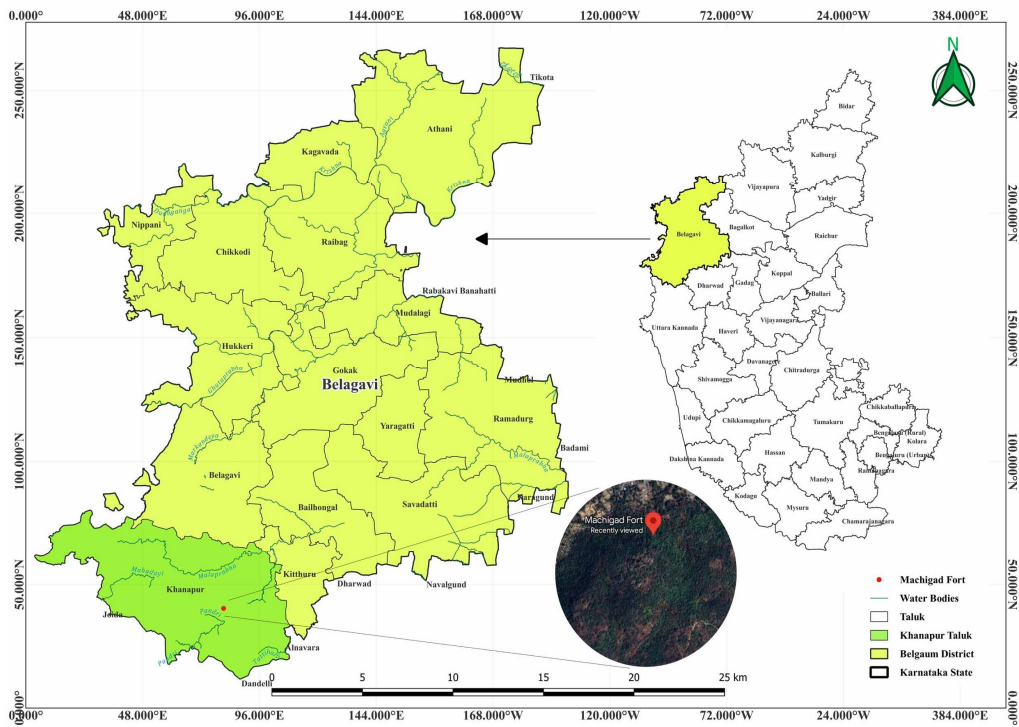
216	<i>Sapindus 19aponaria</i> L.	Sapindaceae	T	LC	November-February	Western soapnut	E
217	<i>Sapindus trifoliatius</i> Vahl	Sapindaceae	T	DD	October-December	South Indian soapnut, Soapberry	I
218	<i>Saraca asoca</i> (Roxb.) W. J. de Wilde	Fabaceae	T	VU	March-October	Ashoka tree, True Ashoka	I
219	<i>Schleichera oleosa</i> (Lour.) Oken	Sapindaceae	T	LC	February-August	Ceylon Oak, Kusum, Kendala	I
220	<i>Scurrula parasitica</i> L.	Loranthaceae	S	NE	Throughout year	Cinnamon Mistletoe	I
221	<i>Semecarpus anacardium</i> L.f.	Anacardiaceae	T	LC	July-April	Marking Nut, Geru	I
222	<i>Senecio bombayensis</i> N. P. Balakr.	Astraceae	H	NE	August-December	Sonki	I
223	<i>Senecio</i> spp L.	Astraceae	H	LC,NT,EN,CR,VU,EW,D D	August onwards		I
224	<i>Senecio tenuifolius</i> Burm.f.	Astraceae	H	NE	August-February	Slender-leaf senecio	I
225	<i>Senegalia caesia</i> (L.) Maslin, Seigler & Ebinger	Fabaceae	L	LC	June-April	Black catechu, Soap bark	I
226	<i>Senegalia torta</i> (Roxb.) Maslin, Seigler & Ebinger	Fabaceae	L	LC	Throughout year	Twisted acacia, Kad siege	I
227	<i>Senna auriculata</i> (L.) Roxb.	Fabaceae	S	LC	Throughout year	Tanner's Cassia, Tangadi	I
228	<i>Senna occidentalis</i> (L.) Link	Fabaceae	S	LC	August-February	Coffee senna, Aanesogate	E
229	<i>Senna uniflora</i> (Mill.) H.S. Irwin & Barneby	Fabaceae	S	NE	July-December	Oneleaf senna	E
230	<i>Setaria flavida</i> (Retz.) Veldkamp	Poaceae	H	NE	July-December	Yellow Watercrown Grass	I
231	<i>Sida acuta</i> Burm.f.	Malvaceae	S	NE	Throughout year	Common wireweed, Bheemana kaddi	I
232	<i>Sida rhombifolia</i> L.	Malvaceae	S	NE	July-February	Rhombic-leaf sida,	I

						Cuban jute	
233	<i>Smilax ovalifolia</i> Roxb. ex D. Don	Smilacaceae	C	NE	August	Large-leaf smilax	I
234	<i>Smithia</i> spp	Fabaceae	H, S, C	LC,NT,NE	November- February		I
235	<i>Sopubia trifida</i> Buch. –Ham. Ex D. Don	Orobanchaceae	H	NE	November- May	Split leaf sopubia	I
236	<i>Spermadictyon suaveolens</i> Roxb.	Rubiaceae	S	NE	August-March	Forest champa	I
237	<i>Sterculia foetida</i> L.	Malvaceae	T	LC	March-August	Java olive, Jangli badam	I
238	<i>Sterculia guttata</i> Roxb.	Malvaceae	T	LC	Septmber- March	Spotted Sterculia	I
239	<i>Sterculia villosa</i> Roxb. ex Sm.	Malvaceae	T	LC	January-June	Hairy Sterculia, Billitaale	I
240	<i>Strobilanthes pavala</i> (Roxb.)J.R.I.Wood	Acantaceae	S	NE	Septmber- April	Shade loving coneflower	I
241	<i>Syzygium cumini</i> (L.) Skeels	Myetaceae	T	LC	February- October	Jamun, Nerale	I
242	<i>Tacca leontopetaloides</i> (L.)Kuntze	Dioscoreaceae	H	LC	July-October	Fiji Arrowroot, Batflower	I
243	<i>Tadehagi triquetrum</i> (L.) H. Ohashi	Fabaceae	Us	LC	August-March	Winged-Stalk desmodium	I
244	<i>Tamarindus indica</i> L.	Fabaceae	T	LC	April- December	Tamarind, Hunase, Imli	E
245	<i>Tamilnadia uliginosa</i> (Retz.) Tirveng. & Sastre	Rubiaceae	T	LC	April-January	Divine Jasmine, Doddakaare	I
246	<i>Taxillus cuneatus</i> (B. Heyne ex Roth) Danser	Loranthaceae	H	NE	March- December	Wedged-Leaf Mistletoe	I
247	<i>Tecoma stans</i> (L.) Juss. Ex Kunth	Bignoniaceae	T	LC	Throughout year	Yellow bells, Trumpet flower	E
248	<i>Tectona grandis</i> L.f.	Lamiaceae	T	EN	April- September	Teak wood, Sagvaan, Thega mara	I
249	<i>Tephrosia purpurea</i> (L.) Pers.	Fabaceae	Us	DD,LC,EN	Throughout year	Common tephrosia, Wild indigo	I
250	<i>Terminalia anogeissiana</i> Gere & Boatwr.	Combretaceae	T	NE	March- December	Axle wood tree	I

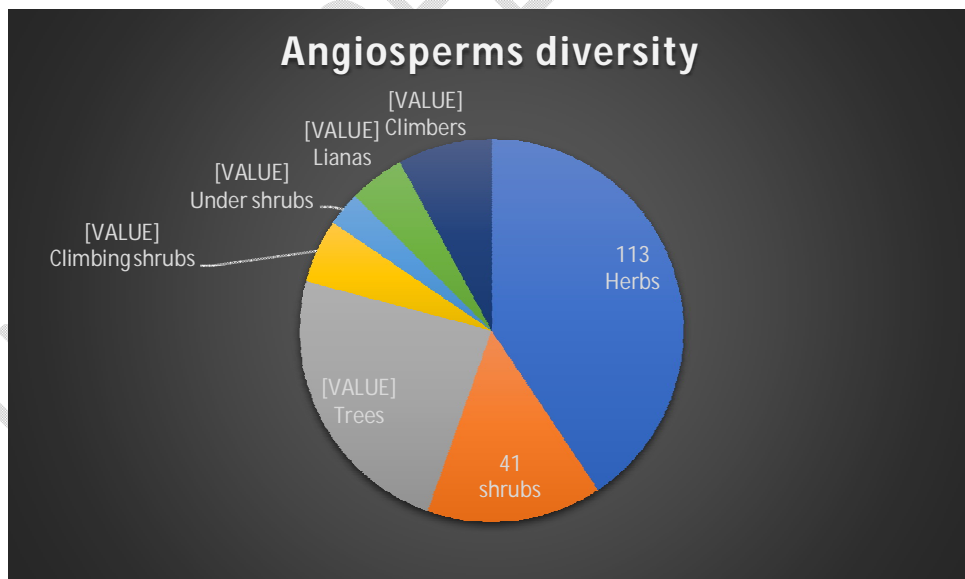
251	<i>Terminalia bellirica</i> (Gaertn.) Roxb.	Combretaceae	T	LC	March-December	Belliric Myrobalan, Taree mara	I
252	<i>Terminalia catappa</i> L.	Combretaceae	T	LC	February-November	Indian Almond, Kaadubadami	I
253	<i>Terminalia chebula</i> Retz.	Combretaceae	T	LC	February-October	Chebulic Myrobalan, Alale	I
254	<i>Terminalia elliptica</i> Willd.	Combretaceae	T	LC	April-December	Indian Laurel, Silver grey wood, Karimatti	I
255	<i>Terminalia paniculata</i> B. Heyne ex Roth	Combretaceae	T	LC	July-October	Kindal tree, Honagalu	I
256	<i>Thunbergia fragrans</i> Roxb.	Acantaceae	C	NE	Throughout year	Sweet clock-vine, Indrapushpa	I
257	<i>Tinospora cordifolia</i> (Willd.) Hook.f. & Thomson	Menispermaceae	L	NE	Throughout year	Heartleaf Moonseed, Amritballi, Gulbel	I
258	<i>Tinospora sinensis</i> (Lour.) Merr.	Menispermaceae	L	NE	February-June	Malabar Moonseed	I
259	<i>Tribulus terrestris</i> L.	Zygophyllaceae	H	LC	Throughout year	Puncture Vine, Negalmullu	I
260	<i>Trema orientale</i> (L.) Blume	Cannabaceae	T	LC	January-October	Indian Charcoal tree, Pigeon wood	I
261	<i>Tricholepis</i> sp.	Astraceae	S	DD, VU, NE	August-October		I
262	<i>Tridax procumbens</i> L.	Astraceae	H	NE	Throughout year	Tridax daisy, Addige soppu	E
263	<i>Triumfetta pilosa</i> Roth	Malvaceae	Us	NE	September-January	Hairy burr-bush	I
264	<i>Triumfetta rhomboidea</i> Jacq.	Malvaceae	S	NE	August-January	Burr bush, Katavaani	I
265	<i>Triumfetta rotundifolia</i> Lam.	Malvaceae	Us	NE	July-January	Roundleaf burr-bush	I
266	<i>Vanda testaceae</i> (Lindl.) Rchb.f	Orchidaceae	H	NE	April-July	Small flowered vanda	I
267	<i>Vincetoxicum rotundifolium</i> (Buch. Ham. ex Wight) Kuntze	Apocynaceae	H	NE	May-September	Roundleaf ipecac	I

268	<i>Viscum articulatum</i> Burm.f.	Santalaceae	S	NE	November-June	Leafless mistletoe	I
269	<i>Viscum</i> sp.	Santalaceae	T	NT,VU,LC,NE	November-March		I
270	<i>Waltheria indica</i> L.	Malvaceae	Us	LC	Throughout year	Sleepy Morning, Velvet leaf	E
271	<i>Wrightia tinctoria</i> (Roxb.) R.Br	Apocynaceae	H	LC	February-October	Sweet indrajao, Dyers's oleander	I
272	<i>Xanthium strumarium</i> L.	Astraceae	Us	NE	August-September	Common cocklebur, Broad bur	I
273	<i>Xylia xylocarpa</i> (Roxb.) w.Theob.	Fabaceae	T	LC	April-January	Burma Ironwood	I
274	<i>Zanthoxylum rhetsa</i> (Roxb.) DC.	Rutaceae	T	LC	March-October	Indian Prickly Ash	I
275	<i>Ziziphus horrida</i> Roth	Rhamanaceae	T	LC	Septmber-February	Jujube	I
276	<i>Ziziphus mauritiana</i> Lam.	Rhamanaceae	T	LC	December-April	Indian jujube, Bore	I
277	<i>Ziziphus rugosa</i> Lam.	Rhamanaceae	Cs	LC	January-July	Wild Jujube	I
278	<i>Zornia gibbosa</i> Span.	Fabaceae	H	NE	August-January	Grasslike Zornia	I

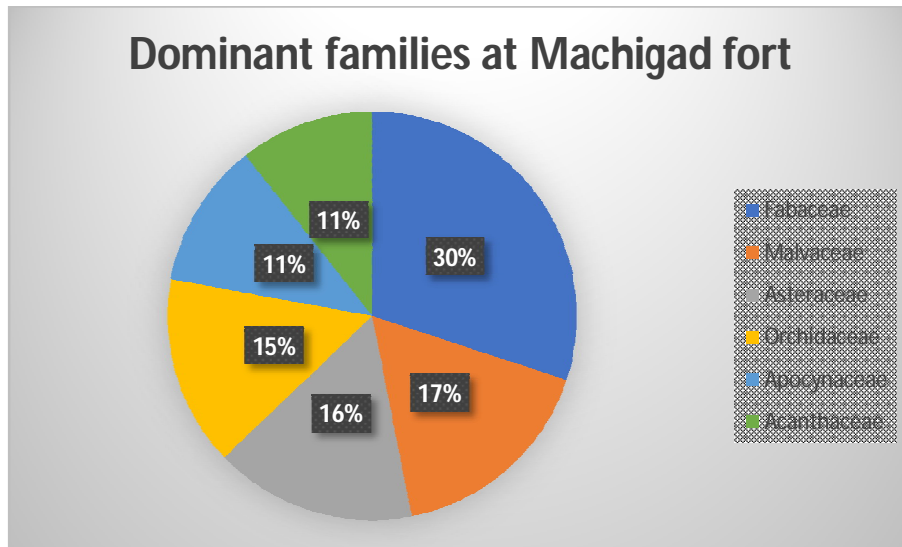
Us- Undershrub; T-Tree; H-Herb; Cs- Climbing Shrubs; S- Shrub; C- Climbers; LC-Least Concern; NT-Not evaluated; VU-Vulnerable; NE-Not Evaluated; DD- Data deficient; I-India; E-Exotic



**Fig. 01.** Study area showing Machigad fort, Halshi, Khanapur, Belgavi



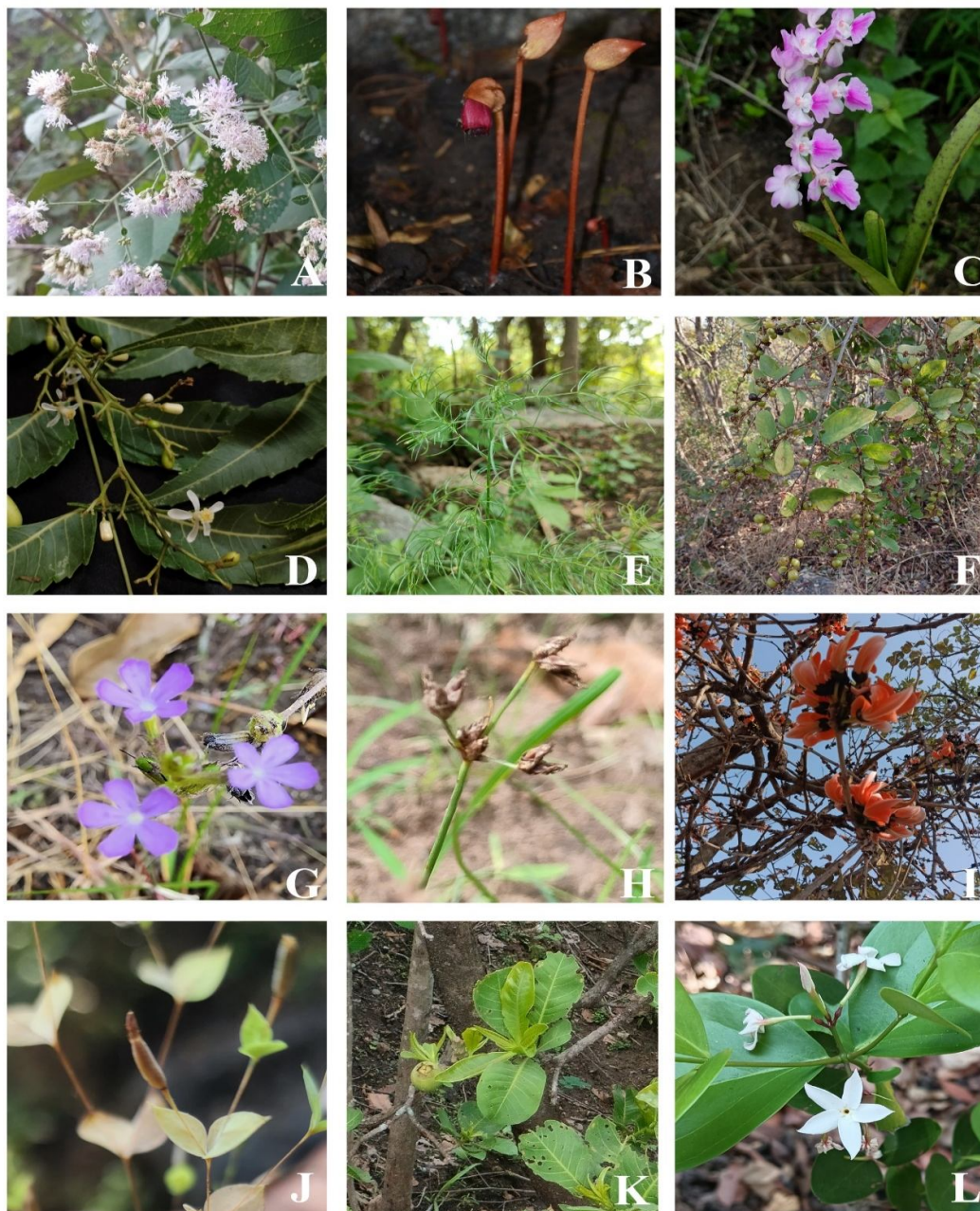
**Fig. 02.** Habit wise Angiosperm diversity at Machigad Fort, Halshi, Belgavi



**Fig. 03.** Dominant families at Machigad Fort, Halshi, Belgavi

UNDER PEER REVIEW





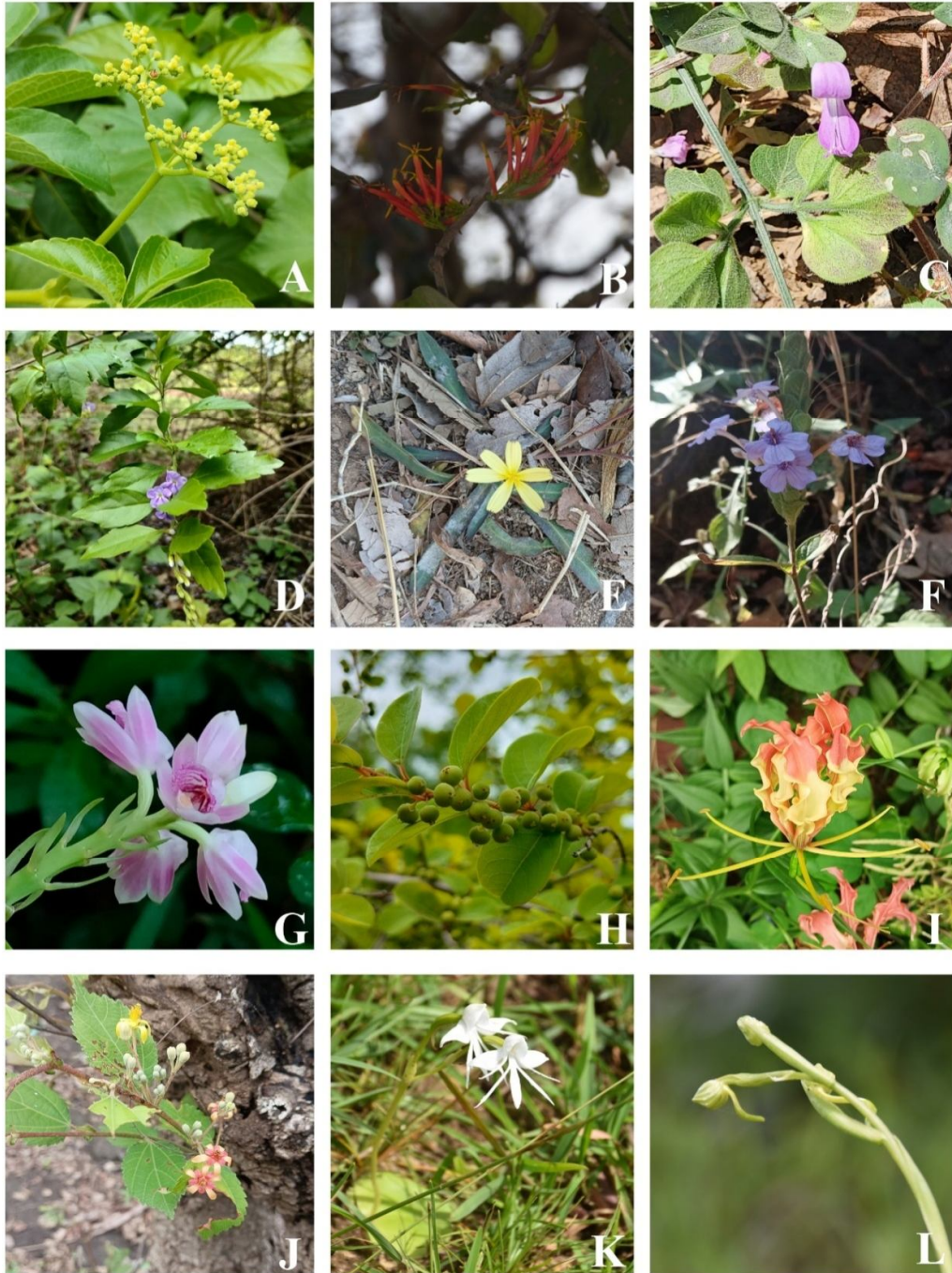
**Fig. 04:Habit:** **A.** *Acilepis heynei* (Bedd. Ex Gamble) H.Rob. & Skvarla; **B.** *Aeginetia indica* L.; **C.** *Aerides maculosa* Lindl.; **D.** *Azadirachta indica* A.Juss.; **E.** *Asparagus racemosus* Willd.; **F.** *Bridelia stipularis* (L.)Blume; **G.** *Buchnera hispida* Buch.-Ham. Ex D.Don; **H.** *Bulbostylis thouarsii* (Roem. and Schult.)Lye ex Veldkamp and Verloove; **I.** *Butea monosperma* (Lam.) Kuntze; **J.** *Canscora diffusa* (Vahl) R.Br. ex Roem. and Schult; **K.** *Careya arborea* Roxb.; **L.** *Carissa carandas* L.





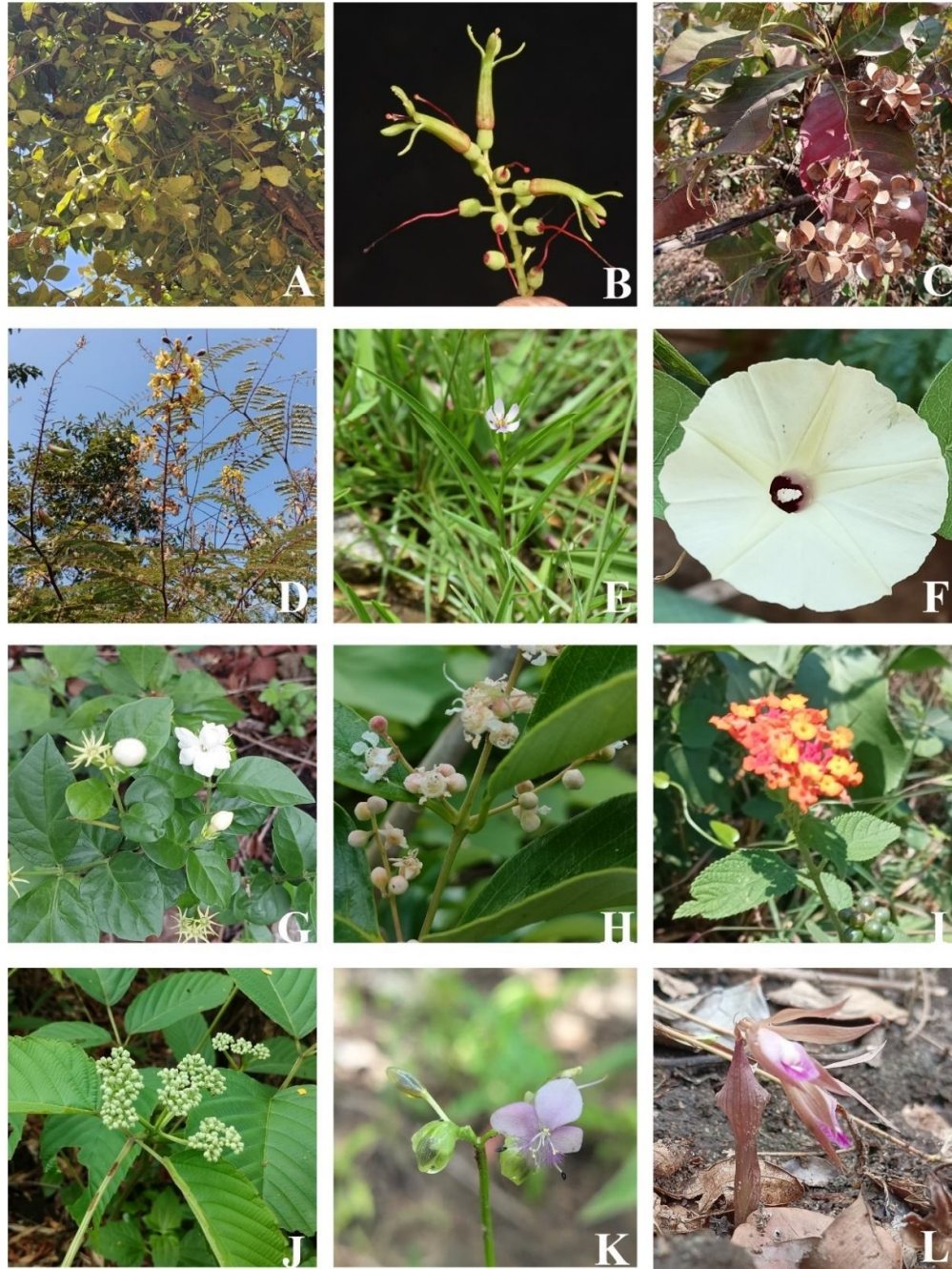
**Fig.05: Habit:**A.*Cassia fistula* L.; B.*Chlorophytum nimmonii* Dalzell; C. *Chromolaena ordata* (L.) R.M.King & H.Rob.; D. *Cipadessa baccifera* (Roxb. Ex Roth) Miq.; E. *Commelina benghalensis* L.; F. *Commelina suffruticosa* Blume; G. *Costus speciosus* (J.Koenig) Sm.; H. *Curculigo orchioides* Gaertn.; I. *Curcuma aromatica* Salisb.; J. *Cyclea peltata* (Burm.f.) Hook. f. & Thomson; K. *Cyperus paniceus* (Rottb.) Boeckeler; L.*Cyperus pulchellus* R. Br.





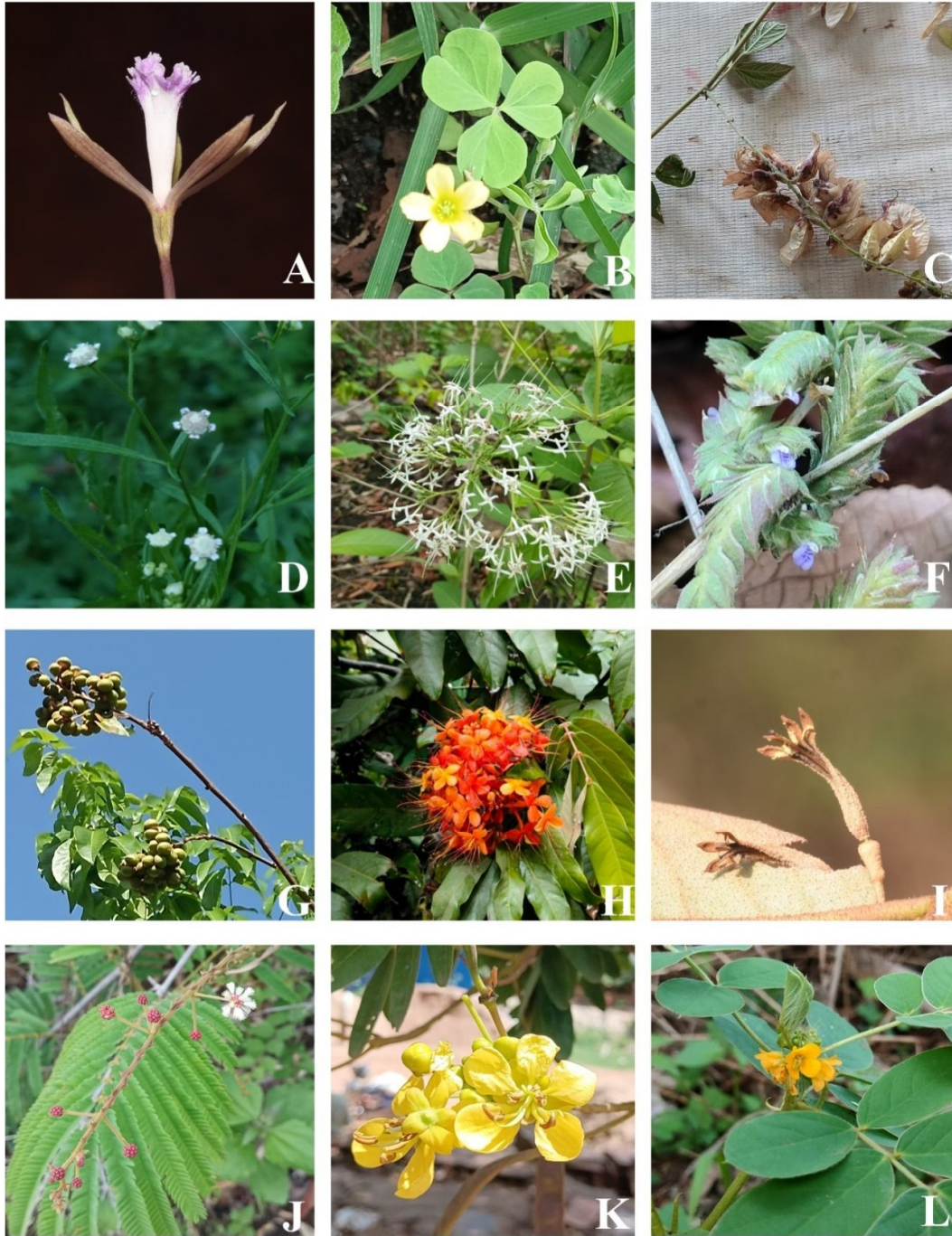
**Fig.06:** **A.** *Cyphostemma auriculatum* (Roxb.) P.Singh. and B.V.Shetty; **B.** *Dendrophthoe falcate* (L.f.) Ettingsh.; **C.** *Dicliptera foetida* (Forssk.) Blatt.; **D.** *Duranta erecta* L.; **E.** *Elephantopus scaber* L.; **F.** *Eranthemum roseum* (Vahl) R.Br. ex Roem. and Schult.; **G.** *Eulophia picta* (R.Br.) Ormerod; **H.** *Flueggea leucopyrus* Willd.; **I.** *Gloriosa superb* L.; **J.** *Grewia tiliifloia* Vahl **K.** *Hebenaria grandifloriformis* Blatt. & McCann; **L.** *Herbenaria longicorniculata* J.Graha;





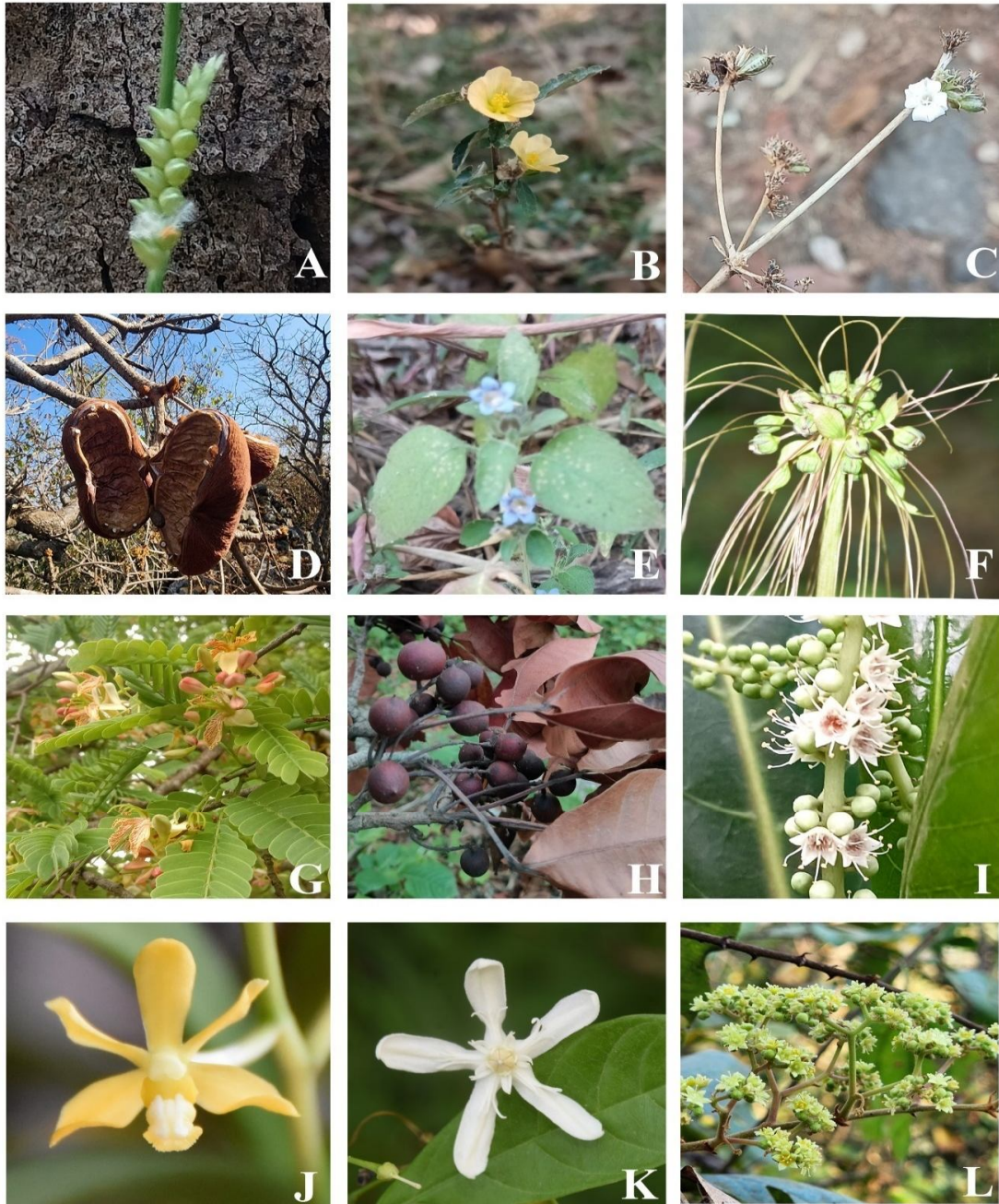
**Fig. 07:** **A.** *Helicanthes elastic* (Desr.) Danser; **B.** *Helixanthera obtusata* (Wall. Ex Wight & Arn.) Danser; **C.** *Holoptelea integrifolia* (Roxb.) Planch.; **D.** *Hultholia mimosoides* (Lam.) Gagnon & G.P.Lewis; **E.** *Iphigenia pallid* Baker; **F.** *Ipomoea obscura* (L.) Ker Gawl.; **G.** *Jasminum sambac* (L.) Aiton; **H.** *Lagerstroemia microcarpa* Wight; **I.** *Lantana camera* L.; **J.** *Leea asiatica* (L.) Ridsdale; **K.** *Murdannia loriformis* (Hassk.); **L.** *Nervilia plicata* (Andrews) Schltr.;





**Fig. 08:**A. *Nervilia simplex* (Thouars) Schltr; B. *Oxalis corniculata* L.; C. *Paracalyx scariosus* (Roxb.) Ali; D. *Parthenium hysterophorus* L.; E. *Pavetta indica* L.; F. *Rungia muralis* Royle ex Nees; G. *Sapindus trifoliatus* L.; H. *Saraca asoca* (Roxb.) W. J. de Wilde; I. *Scurrula parasitica* L.; J. *Senegalia torta* (Roxb.) Maslin, Seigler & Ebinger; K. *Senna auriculata* (L.) Roxb.; L. *Senna uniflora* (Mill.) H. S. Irwin & Barneby.





**Fig. 09:** **A.** *Setaria flavida* (Retz.) Veldkamp; **B.** *Sida rhobifolia* L.; **C.** *Spermadictyon suaveolens* Roxb.; **D.** *Sterculia foetia* L.; **E.** *Strobilanthes pavala* (Roxb.) J.R.I Wood; **F.** *Tacca leontopetaloides* (L.) Kuntze; **G.** *Tamarindus indica* L.; **H.** *Terminalia bellirica* (Gaertn.) Roxb.; **I.** *Terminalia catappa* L.; **J.** *Vanda testacea* (Lindl.) Rchb.f.; **K.** *Wrightia tinctoria* (Roxb.) R.Br.; **L.** *Ziziphus horrid* Roth.