

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

ABSTRACT

The study of phytodiversity of flora within the fort is important. Fort flora found within the historical forts of Karnataka, India are vital for their rich biodiversity, including many rare and endemic species. The study of fort flora reports 278 species only angiosperms 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

Phytodiversity is important to understand the overall structure, function of any ecosystem, and provide all kinds of essential requirements. (Gairola *et al.*, 2010). Plants provide food and other life supporting commodities and important for survival of humans and other organisms besides they protect our environment and maintain nature. Plantdiversity includes trees, shrubs, herbs, climbers including medicinal, economical plants and wild edible plants. (Choudhary & Nama, 2014). The biotic factors mainly includes species interaction like competition, predation, 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). Here fort flora is concept, forts are one of key features and provide a diverse range of habitats due to unique environment, which are include many endemic flora. They play important role in their respective ecosytemas they protect flora. (Jangam & Pawar, 2023).

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; Bidar fort flora reported 221 species belonging to 63 families, which records Algae 20 species, Lichens 2 species, Bryophytes 08 species, Pteridophytes 08 species, Gymnosperms 06 species, Angiosperms including Monocotyledons 27

species, 23 Genera, 04 family, and Dicotyledons 150 species, 121 Genera, 46 Families (Shrishail & Mathad, 2009). 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, Karnataka by Yelvattimath and Kotresh (2011) reported 274 species, 215 genus, 80 species. Floristic Diversity of Raichur Fort Karnataka India reported 158 species belonging to 39 families of Angiosperms, 04 species of Pteridophytes, 03 species of Bryophyte, 04 species of Algae were collected and recorded from the rocks and fort walls and ponds of Raichur fort. (Shrishail *et al.*, 2020). Floristic enumeration of Ballari Fort Karnataka reported 115 plant species belonging to 98 genera and 39 families of Angiosperms from fort (Siddeshwari, 2021). Flowering plants of Chikodi hills Belagavi, Karnataka, India by Dalavi *et al.*, (2021) 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. Harsi, Nandhgod and Ramtheerth are villages surrounded by Machigad (Fig. 01). The geographical area is about 2.0284 km². Collection of specimens four seasons were considered for study, they are pre-monsoon, monsoon, winter and summer. Pre-monsoon includes April-June showers. Monsoon includes June-September showers. Winter December to January. Summer includes February-May. Specimen identification with the following flora (Cooke, 1906; Gamble, 1928; Saldanha and Nicolson, 1976; Saldanha, 1984 & 1996; Sharma *et al.*, 1984; Singh, 1988; 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) and herbarium preparation. Each specimen was pressed and dried according to the method of Ragvendra and Jain (1976). The dried specimens were previously stored in alcohol mixed with mercuric chloride (2%) to keep them away from fungal and insect attacks (Ravindmath and Premnath, 1977). They were later deposited in the Herbarium of Karnatak Science College, Dharwad (HKSCD). As the names are updated as per KEW botanical Garden London (POWO, 2025).

RESULTS AND DISCUSSION

Diversity of angiosperms of fort flora reports 278 species which is collected during the survey from December 2023 to October 2024. The species list is 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 with 41 species, climbers with 22 species, subshrubs with 8 species, climbing shrubs with 15 species, and lianas with 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 Rhamanaceae. 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, Cappraceae, 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.04-09).

CONCLUSION

The Machigad fort forest need to be conserved for its 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 fort forest is required. In addition, this need to be conserved by forest department from local cattle breeders and wood collectors from forest products. Some invasive weeds (*Duranta erecta* L., *Lantana camara* L.) have destroyed the native flora, which should be conserved.

ACKNOWLEDGEMENT

The author thankful to Rashmi R Gulaguli, Spoorti Deshi, Yukti Katnalli, Manjushri K, Akshay Tantri, Darshan Katnalli and Harish Nayak for their cooperation during the field work.

Disclaimer (Artificial intelligence)

Option 1:

Author(s) hereby declare that NO generative AI technologies such as Large Language Models (ChatGPT, COPILOT, etc.) and text-to-image generators have been used during the writing or editing of this manuscript.

Option 2:

Author(s) hereby declare that generative AI technologies such as Large Language Models, etc. have been used during the writing or editing of manuscripts. This explanation will include the name, version, model, and source of the generative AI technology and as well as all input prompts provided to the generative AI technology

Details of the AI usage are given below:

- 1.
- 2.
- 3.

REFERENCES

- Baskar, V. & Kushalappa, C. G. (2014). Flora of Tumkur District. Centre for Plant Taxonomic Studies, Bangalore.
- Bhat, K. G. (2003). Flora of Udupi District. Indian Naturalist. Inchara, Chitpady, Udupi.
- Bhat, K. G. (2014). Flora of South Kanara: Dakshina Kannada and Udupi Districts of Karnataka. Udupi: Taxonomy Research Centre. Chitpady, Udupi.
- Choudhary, K. & S. K. Nama (2014). Phyto-diversity of Mukundara hill national park of Kota district, Rajasthan, India. Advances in Applied Science Research, 5(1): 18-23.
- Cooke, T. (1906). Flora of the presidency of Bombay. Vol. I. II. III. Botanical survey of India.
- Gairola, S., Sharma, C. M., Rana, C. S., Ghidiyal, S. K. & S. Suyal (2010). Phytodiversity (Angiosperms and Gymnosperms) in Mandal-Chopta Forest of Garhwal Himalaya, Uttarkhand, India. Nature and Science, 8(1): 1-17.
- Jangam, A. P. & N. V. Pawar (2023). Floristic studies on hill forts of Sahyadri: A review. Journal of Indian Botanical Society, 103 (1): 26-31.
- Kotresha, K. & Kambhar, S. V. (2016). Flora of Gadag District Karnataka. Lambert academic publishing.
- Manjunatha, B. K., Krishna, V. & Pullaiah T. (2004). Flora of Davanagere District, Karnataka, India. Regency Publications, Delhi.

POWO (2023). Plants of the World Online. Facilitated by the Royal Botanic Gardens, Kew. Published on the internet; <https://powo.science.kew.org/>. Retrieved July 2024.

Ragvendra, R. & Jain S. K. (1976). A Handbook of Field and Herbarium Methods. Scholarly Publications.

Ravindranth, S. & Premnath, S. (1977). Biomass studies: Field methods for monitoring biomass. Mohan Primalani for Oxford and IBH Publishing Co.

Rawat V. & Khare P. B. (2010). Phytodiversity and Its Importance National Conference on Biodiversity, Development and Poverty Alleviation. 128-131.

Saldanha, C. J. & Nicolson, D. H. (1976). Flora of Hassan District Karnataka. Amerind Publishing Co. Pvt. Ltd., New Delhi.

Saldanha, C. J. (1984). Flora of Karnataka. Vol. 1. Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.

Saldanha, C. J. (1996). Flora of Karnataka. Vol. 2. Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi.

Sanjappa, M. & Sringshwara, A. N. (2019). Flora of Karnataka. Gymnosperms & Angiosperms. Karnataka Biodiversity Board.

Seetharam, Y. N., Kotresh, K. & Uploankar, S. B. (2000). Flora of Gulbarga district. Gulbarga University, Gulbarga, Karnataka. India.

Seetharam, Y. N., Kotresha, K., Haleshi, C., Vijay, D. & Rajanna, L. (2018). Flora of Bidar District, Karnataka. VrikshaVijnan Pvt. Ltd. Bangalore. Karnataka.

Sharma, B. D., Singh, N. P., Raghavan, R. S. & Deshpande, U. R. (1984). Flora of Karnataka analysis. Botanical Survey of India. Calcutta.

Singh, N. P. (1988.). Flora of Eastern Karnataka. Vol. 1&2. Mittal publications. New Delhi.

UNBL. (2022). UN Biodiversity Lab". Published on internet; <https://unbiodiversitylab.org/wp-content/uploads/2023/05/UNBL-2022-Annual-Report-FNL.pdf> 13 Retrieved on July 2024.

Yelavattimath G. P. & Kotresh. K. (2011). Phytodiversity studies in Sriramathirth sacred grooves, Halasi, Khanapur taluk, Belagavi district, Karnataka. Life science Leaflets. 18. 670-683.

Yoganarsimhan, S. N., Ramesh, S. R. & Gurudev, M. R. (2018). Flora of Kolar District. Divyachandra Prakashana.

Sanjay (2022). Studies on Phytodiversity of Malikarjun Hill Adi: A Sacred groove in Karnataka, India. Plant Archives, 22 (2): 437-443. Dalavi, J. V., Patil, Rahul, Bhise, M. R., Dhanannavar, V. V., Patil, V.

P., Nazmeen, J. M. B., Sujata, S. B. & Kambar, S.V. (2021). *Flowering Plants of Chikodi Hills Belagavi, Karnataka, India*. Grin Verlag. 1-37.

Shrishail, C. H. & Mathad, P. (2009). Fort flora of Gulbarga and Bidar, Karnataka. *Indian Journal of Forestry*, 32(4):641-644. Shrishail, C. H., Kakkalameli, S., Madhura, S. & Yogashree G. D. (2020).

Floristic Diversity of Raichur Fort Karnataka India. *International Journal of Science and Research (IJSR)*, 9(9): 188-191.

Siddeshwari, M. (2021). Floristic Enumeration of Ballari Fort Karnataka. *Asian Journal of Plant and Soil Sciences*, 6 (1): 18-22.

UNDER PEER REVIEW

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

Sl.no	Botanical name	Habit	IUCN Status	Flowering and fruiting season	Common name	Nativity
Acanthaceae						
1	<i>Andrographis paniculata</i> (Burm.f.) Wall. ex Nees	H	NE	March-December	Green Chiretta, Nelabevu	I
2	<i>Asystasia gangetica</i> (L.) T.Anderson	H	NE	August-December	Ganges Primrose, Chinese violet, Lavangavalli	I
3	<i>Barleria prionitis</i> L.	S	LC	August-March	Porcupine Flower, Haladi gorate	I
4	<i>Blepharis maderaspatensis</i> (L.) B.Heyne ex Roth	H	NE	August-March	Creeping Blepharis, Koodali soppu	I
5	<i>Dicliptera foetida</i> (Forssk.) Blatter	H	NE	November-April	Stinking foldwing	I
6	<i>Eranthemum roseum</i> (Vahl) R.Br.ex Roem. & Schult.	S	LC	November-January	Kappukarni, Blue eranthemum	I
7	<i>Hygrophila ringens</i> (L.) R. Br. ex Steud.	H	NE	October-March	Erect Hygrophila	I
8	<i>Justicia adhatoda</i> L.	S	LC	October-March	Malabar nut, Karchi	I
9	<i>Neuracanthus tetragonostachyus</i> Nees	H	NE	June-September	Three veined neuracanthus, Nili huuvu kaddi	I
10	<i>Rungia muralis</i> Royle ex Nees	H	NE	November-April	Wall Rungia	I
11	<i>Strobilanthes pavala</i> (Roxb.)J.R.I.Wood	S	NE	Septmber-April	Shade loving coneflower	I
12	<i>Thunbergia fragrans</i> Roxb.	C	NE	Throughout year	Sweet clock-vine, Indrapushpa	I
Amaranthaceae						
13	<i>Alternanthera pungens</i> Kunth	H	NA	Throughout year	Paper Thron, Mullu honagonne	E
14	<i>Amaranthus viridis</i> L.	H	NE	December-April	Green Amaranth. Pigweed, Keresoppu	E
Anacardiaceae						
15	<i>Anacardium occidentale</i> L.	T	LC	December-May	Cashew, Godambi, Kaju	E
16	<i>Lannea coromandelica</i> (Houtt.) Merr.	T	LC	January-July	Indian Ash Tree	I

17	<i>Semecarpus anacardium</i> L.f.	T	LC	July-April	Marking Nut, Geru	I
Annonaceae						
18	<i>Annona squamosa</i> L.	T	LC	March-December	Sugar Apple	E
Apiaceae						
19	<i>Pimpinella heyneana</i> (DC.) Benth. & Hook.f.	H	NE	August-March	Selvanthachedi	I
Apocynaceae						
20	<i>Calotropis gigantea</i> (L.) W.T.Aiton	S	NE	Throughout year	Crown flower, Giant Milk-Weed, Ekke gida	I
21	<i>Carissa carandas</i> L.	S	DD	March-October	Kavali hoo/kai, Gariche	I
22	<i>Carissa spinarum</i> L.	S	LC	February-July	Wild karanda, Chikka kavali	I
23	<i>Catharanthus pusillus</i> (Murray) G.Don	H	NE	July-January	Tiny Periwinkle	I
24	<i>Ceropegia bulbosa</i> Roxb.	C	NE	July-December	Bulbous Ceropegia	I
25	<i>Cryptolepis buchananii</i> R.Br. ex Roem. & Schult.	Cs	NE	March-September	Wax Leaved Climber	I
26	<i>Cryptostegia grandiflora</i> Roxb. ex R.Br.	L	NE	Throughout year	Rubber vine	E
27	<i>Gymnema sylvestre</i> (Retz.) R. Br. ex Sm	L	NE	August-March	Cowplant, Sappe soppu	I
28	<i>Hemidesmus indicus</i> (L.) R. Br.	C	NE	August-February	Indian Sarsaparilla, Anantamula	I
29	<i>Holarrhena pubescens</i> Wall .ex G.Don	T	LC	March-October	Tellicherry tree, Ester tree	I
30	<i>Ichnocarpus frutescens</i> (L.) W.T.Aiton	L	NE	August-December	Black Creeper, Halugenasu	I
31	<i>Vincetoxicum rotundifolium</i> (Buch. Ham. ex Wight) Kuntze	H	NE	May-September	Roundleaf ipecac	I
32	<i>Wrightia tinctoria</i> (Roxb.) R.Br	H	LC	February-October	Sweet indrajao, Dyers's oleander	I
Araceae						
33	<i>Arisaema tortuosum</i> (Wall.) Schott	H	NE	May-November	Whipcord Cobra Lily	I

Aristolochiaceae						
34	<i>Aristolochia indica</i> L.	C	NE	July-February	Indian Birthwort, Duck flower, Ishwar balli	I
35	<i>Asparagus racemosus</i> Willd.	Cs	NE	July-December	Buttermilk root, Satawari	I
36	<i>Chlorophytum laxum</i> R.Br.	H	NE	May-December	Zebra Grass, False lily turf	I
37	<i>Chlorophytum nimmonii</i> Dalzell	H	NE	August-September	Lax-Flowered Chlorophytum	I
38	<i>Dipcadi montanum</i> (Dalzell) Baker	H	NE	June-October	Mountain Dipcadi	I
39	<i>Drimia indica</i> (Roxb.) Jessop	H	NE	December-May	Indian Squill	I
Asteraceae						
40	<i>Acanthospermum hispidum</i> DC.	H	NE	January-July	Bristly Starbur, Kadale mullu	E
41	<i>Acilepis heynei</i> (Bedd. Ex Gamble) H.Rob. & Skvarla	S	NE	November-May	Acilepis Plant	I
42	<i>Acmella calva</i> (DC.) R.K.Jansen	H	NE	February-December	Paracress, Toothache plant	I
43	<i>Ageratum conyzoides</i> L.	H	LC	Throughout year	Goat weed, Jangli pudina	E
44	<i>Bidens 9ivaricat</i> (Lour.) Merr. & Sherff	H	NE	Throughout year	Yellow blackjack	I
45	<i>Blainvillea acmella</i> (L.) Philipson	H	LC	September-April	Spot-me flower	I
46	<i>Chromolaena odorata</i> (L.) R.M.King & H. Rob.	S	NE	October-May	Siam weed, Bitter bush	E
47	<i>Eclipta prostrata</i> (L.) L.	H	LC	Throughout year	False Daisy, Trailing eclipta, Kaadige garige	E
48	<i>Elephantopus scaber</i> L.	H	NE	August-January	Prickly leaved elephant foot, Hakkarike	I
49	<i>Epaltes divaricate</i> (L.) Cass.	H	LC	October-April	Narrow -Leaf Epaltes	I
50	<i>Eschenbachia stricta</i> (Willd.) Raizada	H	NE	September-April	Erect Horseweed	I
51	<i>Parthenium hysterophorus</i> L.	S	NE	Throughout year	Carrot grass, Congress grass	E
52	<i>Phyllocephalum phyllolaenum</i> (DC.) Narayana	H	NE	September-November	Broad-leafed phyllolaenum	I
53	<i>Senecio bombayensis</i> N.P.Balacr.	H	NE	August-	Sonki	I

				December		
54	<i>Senecio</i> spp L.	H	LC,NT,EN,CR,VU,EW,DD	August onwards		I
55	<i>Senecio tenuifolius</i> Burm.f.	H	NE	August-February	Slender-leaf senecio	I
56	<i>Tricholepis</i> sp.	S	DD,VU,NE	August-October		I
57	<i>Tridax procumbens</i> L.	H	NE	Throughout year	Tridax daisy, Addige soppu	E
58	<i>Xanthium strumarium</i> L.	Us	NE	August-September	Common cocklebur, Broad bur	I
Balsaminaceae						
59	<i>Impatiens rupicola</i> (Hook.f.) Bhaskar	H	NE	July-October	Rock Balsam	I
Bignoniaceae						
60	<i>Dolichandrone falcata</i> (Wall. ex DC.) Seem.	T	LC	January-November	Medhshingi, Goodumurki	I
61	<i>Heterophragma quadriloculare</i> (Roxb.) K. Schum	T	LC	December-February	Waras, Adavi nugge	I
62	<i>Tecoma stans</i> (L.) Juss. Ex Kunth	T	LC	Throughout year	Yellow bells, Trumpet flower	E
Boraginaceae						
63	<i>Cordia dichotoma</i> G.Forst.	T	LC	January-September	Indian cherry, Kaaduchalle	I
Cannabaceae						
64	<i>Trema orientale</i> (L.) Blume	T	LC	January-October	Indian Charcoal tree, Pigeon wood	I
Capparaceae						
65	<i>Capparis zeylanica</i> L.	Cs	NE	January-October	Ceylon caper, Govinda phala	I
Celastraceae						
66	<i>Celastrus paniculatus</i> Willd.	L	NE	March-December	Oriental bittersweet, Karigonne	I
67	<i>Gymnosporia senegalensis</i> (Lam.) Loes.	S	LC	September-February	Red Spike Thorn	I
Colchicaceae						
68	<i>Gloriosa superba</i> L.	C	LC	July-November	Glory Lily, Tiger claw, Agnisikhe	I
69	<i>Iphigenia indica</i> (L.) A. Gray ex Kunth	H	LC	July-September	Indian Grass Lily, Kaadu bellulli	I

70	<i>Iphigenia pallida</i> Baker	H	NE	July-September	Pale grass lily	I
71	<i>Iphigenia stellata</i> Blatt.	H	EN	June-September	Star Grass Lily	I
Combretaceae						
72	<i>Combretum albidum</i> G.Don	L	NE	February-May	Piluki	I
73	<i>Terminalia anogeissiana</i> Gere & Boatwr.	T	NE	March-December	Axle wood tree	I
74	<i>Terminalia bellirica</i> (Gaertn.) Roxb.	T	LC	March-December	Belliric Myrobalan, Taree mara	I
75	<i>Terminalia catappa</i> L.	T	LC	February-November	Indian Almond, Kaadubadami	I
76	<i>Terminalia chebula</i> Retz.	T	LC	February-October	Chebolic Myrobalan, Alale	I
77	<i>Terminalia elliptica</i> Willd.	T	LC	April-December	Indian Laurel, Silver grey wood, Karimatti	I
78	<i>Terminalia paniculata</i> B. Heyne ex Roth	T	LC	July-October	Kindal tree, Honagalu	I
Commelinaceae						
79	<i>Commelina benghalensis</i> L.	H	LC	July-November	Bengal Dayflower	I
80	<i>Commelina diffusa</i> Burm.f.	H	LC	April-November	Climbing Day Flower, Creeping dayflower	I
81	<i>Commelina suffruticosa</i> Blume	H	NE	June-December	Shrubby Dayflower, Spiderwort	I
82	<i>Cyanotis axillaris</i> (L.) D.Don ex Sweet	H	LC	July-January	Creeping Cradle Plant	I
83	<i>Cyanotis fasciculata</i> (B.Heyne ex Roth) Schult. & Schult.f.	H	LC	August-January	Nilawanti	I
84	<i>Cyanotis tuberosa</i> (Roxb.) Schult. & Schult.f.	H	NE	August-December	Sahyadri Dew-Grass	I
85	<i>Murdannia crocea</i> (Griff.) Faden	H	NE	August-October	Ochre Dewflower	I
86	<i>Murdannia loriformis</i> (Hassk.) R.S.Rao & Kammathy	H	NE	August-December	Strap-Leaf Dewflower	I
87	<i>Murdannia semiteres</i> (Dalzell) Santapau	H	LC	July-December	Pnicled Dewflower	I
Convolvulaceae						

88	<i>Argyreia</i> Lour.	C, S	NT,EN,DD,NE	June-September		I
89	<i>Ipomoea cairica</i> (L.) Sweet	Cs	LC	Throughout year	Cairo Morning Glory	I
90	<i>Ipomoea nil</i> (L.) Roth	C	NE	August-April	Blue morning glory	E
91	<i>Ipomoea obscura</i> (L.) Ker Gawl.	C	NE	September-March	Obscure Morning Glory	I
92	<i>Ipomoea rubriflora</i> O'Donell	C	NE	September-March	Redstar, Red morning glory	E
Costaceae						
93	<i>Hellenia speciosa</i> (J.Koenig) S.R.Dutta	H	LC	June-September	Crepe Ginger, Cane reed, Nayikabbu	I
Crassulaceae						
94	<i>Kalanchoe olivacea</i> Dalzell	H	NE	January-April	Indian Kalanchoe	I
Cucurbitaceae						
95	<i>Coccinia grandis</i> (L.) Voigt	C	NE	Throughout year	Ivy Gourd, Tondikayi	I
96	<i>Diplocyclos palmatus</i> (L.) C. Jeffrey	C	NE	August-January	Lollipop Climber, Shivalinga balli	I
Cyperaceae						
97	<i>Bulbostylis thouarsii</i> (Roem. & Schant.) Lye ex Veldkamp & Verloove	H	NE	July-November	Bulbostylis	I
98	<i>Cyperus mindorensis</i> (Steud.) Huygh	H	NE	June-September	White Water Sedge, Whitehead spikesedge	I
99	<i>Cyperus paniceus</i> (Rottb.) Boeckeler	H	LC	August- November	Pongorai	I
100	<i>Cyperus pulchellus</i> R.Br.	H	LC	October- November	Panicled flat-sedge	E
Dioscoreaceae						
101	<i>Dioscorea bulbifera</i> L.	C	NE	August- December	Air yam, Bitter yam, Wild yam	I
102	<i>Dioscorea oppositifolia</i> L.	C	NE	July-March	Cinnamon Vine, Hakki genasu	I
103	<i>Dioscorea pentaphylla</i> L.	C	NE	August- December	Five leaf yam, Kaadu gumbala	I
104	<i>Tacca leontopetaloides</i> (L.)Kuntze	H	LC	July-October	Fiji Arrowroot, Batflower	I

Droseraceae						
105	<i>Drosera indica</i> L.	H	LC	August-March	Flycatcher, Sundew, Dew plant	I
Ebenaceae						
106	<i>Diospyros melanoxylon</i> Roxb.	T	NE	January-June	Coromandel Ebony, Abasani, Balai	I
107	<i>Diospyros montana</i> Roxb.	T	NE	March-October	Bombay Ebony, Kalnandi	I
Euphorbiaceae						
108	<i>Mallotus philipensis</i> (Lam.) Mull.Arg.	T	LC	June-March	Kamala tree, Kunkumada mara	I
Fabaceae						
109	<i>Albizia odoratissima</i> (L.f.) Benth.	T	LC	May-February	Black Siris, Kaadu bage, Kala siris	I
110	<i>Bauhinia purpurea</i> L.	T	LC	February-December	Butterfly tree, Kanchuvaala	I
111	<i>Butea monosperma</i> (Lam.) Taub.	T	LC	January-July	Flame of forest, Muttuga	I
112	<i>Cassia fistula</i> L.	T	LC	March-December	Golden shower tree	I
113	<i>Chamaecrista absus</i> (L.) H.S.Irwin & Barneby	H	LC	August-February	Tropical Sensitive Pea, Pig's senna	I
114	<i>Chamaecrista mimosoides</i> (L.) Greene	H	LC	July-February	Feather-leaved Cassia, Nela tangadi	I
115	<i>Clitoria ternatea</i> L.	C	NE	March-October	Butterfly Pea, Shankha pushpi	E
116	<i>Dalbergia lanceolaria</i> L.f.	T	LC	March-July	Lanceleaf Rosewood, Bili beete, Belaga	I
117	<i>Dalbergia latifolia</i> Roxb	T	VU	July-February	Black Rosewood, Beete, Kala shisham	I
118	<i>Geissaspis cristata</i> Wight & Arn.	H	LC	July-January	Eyelashes Shell Beans	I
119	<i>Grona trifolia</i> (L.) H. Ohashi & K. Ohashi	H	NE	Throughout year	Creeping tick trefoil, Kaadu menthe	I
120	<i>Hultholia mimosoides</i> (Lam.) Gagnon & G.P.Lewis	Cs	LC	October-February	Mimosa thorn, Eejimullu	I
121	<i>Indigofera astragalina</i> DC.	H	NE	August-February	Silky Indigo	I
122	<i>Indigofera trifoliata</i> L.	H	NE	September-	Three-Leaf Indigo	I

				January		
123	<i>Indigofera tsiangiana</i> Metcalf	H	NE	July-January	Nine-Leaved Indigo, Chenna gida	I
124	<i>Mimosa pudica</i> L.	H	LC	November-May	Touch me not, Muttidare muni, Olamucchiga	E
125	<i>Moullava spicata</i> (Dalzell ex Wight) Nicolson	Cs	NE	October-March	Candy Corn Plant	I
126	<i>Mucuna pruriens</i> (L.) DC.	L	LC	September-March	Velvet Bean, Cowitch	I
127	<i>Paracalyx scariosus</i> (Roxb.) Ali	L	NE	January-May	Indian husk pea, Kadlenaru	I
128	<i>Piliostigma malabaricum</i> (Roxb.) Benth.	T	LC	October-November	Malabar Bauhinia, Basavanapaada	I
129	<i>Polhillides velutina</i> (Willd.) H. Ohashi & K. Ohashi	Us	NE	September-June	Velvet-leaf desmodium	I
130	<i>Pongamia pinnata</i> (L.) Pierre	T	LC	February-October	Pongam tree, Honge mara	I
131	<i>Saraca asoca</i> (Roxb.) W. J. de Wilde	T	VU	March-October	Ashoka tree, True Ashoka	I
132	<i>Senegalia caesia</i> (L.) Maslin, Seigler & Ebinger	L	LC	June-April	Black catechu, Soap bark	I
133	<i>Senegalia torta</i> (Roxb.) Maslin, Seigler & Ebinger	L	LC	Throughout year	Twisted acacia, Kad siege	I
134	<i>Senna auriculata</i> (L.) Roxb.	S	LC	Throughout year	Tanner's Cassia, Tangadi	I
135	<i>Senna occidentalis</i> (L.) Link	S	LC	August-February	Coffee senna, Aanesogate	E
136	<i>Senna uniflora</i> (Mill.) H.S.Irwin & Barneby	S	NE	July-December	Oneleaf senna	E
137	<i>Smithia</i> spp	H, S, C	LC,NT,NE	November-February		I
138	<i>Tadehagi triquetrum</i> (L.) H. Ohashi	Us	LC	August-March	Winged-Stalk desmodium	I
139	<i>Tamarindus indica</i> L.	T	LC	April-December	Tamarind, Hunase, Imli	E
140	<i>Tephrosia purpurea</i> (L.) Pers.	Us	DD,LC,EN	Throughout year	Common tephrosia, Wild indigo	I
141	<i>Xylia xylocarpa</i> (Roxb.) w.Theob.	T	LC	April-January	Burma Ironwood	I

142	<i>Zornia gibbosa</i> Span.	H	NE	August-January	Grasslike Zornia	I
Gentianaceae						
143	<i>Canscora diffusa</i> (Vahl) R.Br. ex Roem.& Schult	H	NE	October-April	Spreading Canscora	I
144	<i>Canscora perfoliata</i> Lam.	H	NE	October-April	Pierced Leaf Canscora	I
145	<i>Exacum petiolare</i> Griseb.	H	NE	September-December	Stalked Persian Violet, Dodda chirayatha	I
Hypoxidaceae						
146	<i>Curculigo orchioides</i> Gaertn.	H	NE	April-December	Golden Eye Grass, Orchid palm grass	I
Lamiaceae						
147	<i>Clerodendrum infortunatum</i> L.	S	LC	December-February	Hill Glory Bower, Ibbane	I
148	<i>Coleus barbatus</i> (Andrews) Benth. ex G.Don	H	NE	October-February	Indian Coleus	I
149	<i>Coleus strobilifer</i> (Roxb.) A.J.Paton	H	NE	October-February	Thick leaf lavender, Doddapatre	I
150	<i>Gmelina asiatica</i> L.	T	LC	May-February	Asian Bushbeech, Oval-leafed gmelina	I
151	<i>Mesosphaerum suaveolens</i> (L.) Kuntze	S	NE	Throughout year	American Mint, Ganga tulasi	E
152	<i>Rothea serrata</i> (L.) Steane & Mabb.	S	NE	June-February	Blue fountain bush	I
153	<i>Tectona grandis</i> L.f.	T	EN	April-September	Teak wood, Sagvaan, Thega mara	I
Lecythidaceae						
154	<i>Careya arborea</i> Roxb.	T	NE	March-August	Wild Guava, Ceylon Oak	I
Linaceae						
155	<i>Linum mysorens</i> e B. Heyne ex Benth	H	NE	September-January	Mysore Flax, Kaadu agasebija	I
Loranthaceae						
156	<i>Dendrophthoe falcata</i> (L.f.) Ettiingsh.	H	NE	December-May	Honey Suckle Mistletoe, Neem mistletoe	I

157	<i>Helicanthes elastica</i> (Desr.) Danser	H	NE	April-December	Rubbery Mango Mistletoe	I
158	<i>Helixanthera obtusata</i> (Wall. ex Wight & Arn.) Danser	H	NE	April-June	Bluntleaf Mistletoe	I
159	<i>Macrosolen trigonus</i> (Wight & Arn.) Tiegh.	S	NE	May-February	Three-angled mistletoe	I
160	<i>Scurrula parasitica</i> L.	S	NE	Throughout year	Cinnamon Mistletoe	I
161	<i>Taxillus cuneatus</i> (B.Heyne ex Roth) Danser	H	NE	March-December	Wedged-Leaf Mistletoe	I
Lythraceae						
162	<i>Lagerstroemia microcarpa</i> Wight	T	LC	June-February	Bean teak, Bilinandi	I
Malpighiaceae						
163	<i>Aspidopterys cordata</i> (B.Heyne ex Wall.) A.Juss.	Cs	NE	August-January	Bokadvel	I
Malvaceae						
164	<i>Azanza lampas</i> (Cav.) Alef.	H	LC	September-February	Wild cotton	I
165	<i>Bombax ceiba</i> L.	T	LC	January-May	Silk cotton tree, Kempu booraga	I
166	<i>Erinocarpus nimmonii</i> J.Graham	T	VU	September-January	Jangli Bhendi	I
167	<i>Grewia flavescens</i> Juss.	Cs	LC	June-February	Donkey Berry, Sandpaper raisin	I
168	<i>Grewia hirsuta</i> Vahl	S	LC	June-December	Nagbala Crossberry	I
169	<i>Grewia tiliifolia</i> Vahl	T	LC	Throughout year	Dhaman	I
170	<i>Helicteres isora</i> L.	S	LC	April-January	East-Indian srew tree, Murugikaayi gida	I
171	<i>Kydia calycina</i> Roxb.	T	LC	September-February	Kydia, Kolibende	I
172	<i>Melochia corchorifolia</i> L.	H	LC	July-April	Chocolate Weed, Bettadatutti mara	I
173	<i>Microcos paniculata</i> L.	S	LC	August-November	Elm-leaf grewia, Majjige soppu	I
174	<i>Sida acuta</i> Burm.f.	S	NE	Throughout year	Common wireweed, Bheemana kaddi	I

175	<i>Sida rhombifolia</i> L.	S	NE	July-February	Rhombic-leaf sida, Cuban jute	I
176	<i>Sterculia foetida</i> L.	T	LC	March-August	Java olive, Jangli badam	I
177	<i>Sterculia guttata</i> Roxb.	T	LC	Septmber-March	Spotted Sterculia	I
178	<i>Sterculia villosa</i> Roxb. ex Sm.	T	LC	January-June	Hairy Sterculia, Bilitaale	I
179	<i>Triumfetta pilosa</i> Roth	Us	NE	September- January	Hairy burr-bush	I
180	<i>Triumfetta rhomboidea</i> Jacq.	S	NE	August-January	Burr bush, Katavaani	I
181	<i>Triumfetta rotundifolia</i> Lam.	Us	NE	July-January	Roundleaf burr-bush	I
182	<i>Waltheria indica</i> L.	Us	LC	Throughout year	Sleepy Morning, Velvet leaf	E
Melastomataceae						
183	<i>Osbeckia muralis</i> Naudin	H	NE	August- November	Wall Osbeckia	I
Meliaceae						
184	<i>Azadirachta indica</i> A.Juss.	T	LC	January-April	Neem	I
185	<i>Cipadessa baccifera</i> (Roxb. ex Roth) Miq.	S	LC	March- November	Ranabili, Sidigolu	I
Menispermaceae						
186	<i>Cissampelos pareira</i> L.	C	NE	April-October	Velvet Bean, False Pareira Brava	I
187	<i>Cocculus hirsutus</i> (L.) W.Theob.	Cs	NE	Throughout year	Broom Creeper, Ink berry	I
188	<i>Coscinium fenestratum</i> (Gaertn.) Colebr.	L	DD	August-October	Flase calumba	I
189	<i>Cyclea peltata</i> (Burm.f.) Hook.f. & Thomson	C	NE	November-June	Indian moon seed	I
190	<i>Tinospora cordifolia</i> (Willd.) Hook.f. & Thomson	L	NE	Throughout year	Heartleaf Moonseed, Amritballi, Gulbel	I
191	<i>Tinospora sinensis</i> (Lour.) Merr.	L	NE	February-June	Malabar Moonseed	I
Molluginaceae						
192	<i>Hypertelis cerviana</i> (L.) Thulin	H	NE	August-March	Thread-Stem Carpetweed	E
Moraceae						
193	<i>Ficus arnottiana</i> (Miq.) Miq.	T	NE	June-September	Indian Rock Fig, Rock pipal, Kaadu aswatha	I

194	<i>Ficus benghalensis</i> L.	T	NE	Throughout year	Banyan tree, Aaladamara	I
195	<i>Ficus religiosa</i> L.	T	LC	November-February	Peepal Tree, Sacred fig, Aralimara	I
Myrtaceae						
196	<i>Syzygium cumini</i> (L.) Skeels	T	LC	February-October	Jamun, Nerale	I
Nyctaginaceae						
197	<i>Boerhavia diffusa</i> L.	H	NE	Throughout year	Red hogweed, Wineflower	I
Oleaceae						
198	<i>Jasminum malabaricum</i> Wight	Cs	NE	February-September	Malabar Jasmine, Wild Jasmine	I
199	<i>Jasminum sambac</i> (L.) Aiton	Cs	NE	January-July	Arabian Jasmine, Gundu Mallige	I
Onagraceae						
200	<i>Ludwigia adscendens</i> (L.) H.Hara	H	LC	December-July	Water Primrose, Neerdantu	I
Orbanchaceae						
201	<i>Centranthera indica</i> (L.) Gamble	H	LC	July-December	Indian Spur Anther flower	I
202	<i>Parasopubia delphiniifolia</i> (L.) H.P.Hofrn. & Eb.Fisch.	S	NE	July-January	Common sopubia	I
Orchidaceae						
203	<i>Acampe praemorsa</i> (Roxb.) Blatt. &McC.	H	NE	April-December	Clipped acampe, Brittle orchid, Seete hoo	I
204	<i>Aerides maculosum</i> Lindl.	H	NE	June-October	Fox brush orchid, Cat's tail orchid, Draupadi hoo	I
205	<i>Cottonia peduncularis</i> (Lindl.) Rchb.f.	H	NE	March-August	Bee Orchid	I
206	<i>Dendrobium macrostachyum</i> Lindl.	H	LC	April-July	Fringed tree dendrobium, Large spike dendrobium	I
207	<i>Dendrobium ovatum</i> (L.) Kranzel.	H	NE	September-March	Green lipped dendrobium	I
208	<i>Eulophia nuda</i> Lindl.	H	NE	April-July	Spectacular eulophia	I

209	<i>Habenaria furcifera</i> Lindl.	H	NE	August- November	Forked habenaria	I
210	<i>Habenaria grandifloriformis</i> Blatt. & McCann	H	NT	June-October	Single leaved hebenaria, Angel Orchid	I
211	<i>Habenaria marginata</i> Colebr.	H	NE	July-November	Golden yellow habenaria	I
212	<i>Luisia zeylanica</i> Lindl	H	NE	February-June	Cylindrical-leaf luisia	I
213	<i>Nervilia infundibulifolia</i> Blatt. & McCann,	H	NE	May-August	Funnel-leaf nervilia	I
214	<i>Nervilia plicata</i> (Andrews) Schltr.	H	NE	February-August	Pleated leaf nervilia	I
215	<i>Nervilia simplex</i> (Thouars) Schltr.	H	NE	May-June	Trembling Nervilia, Onde le thaavare	I
216	<i>Oberonia falconeria</i> Hook.f.	H	NE	September-June	Limey oberonia	I
217	<i>Peristylus plantagineus</i> (Lindl.) Lindl.	H	NE	July-December	Plantain peristylus	I
218	<i>Rhynchostylis retusa</i> (L.) Blume,	H	NE	May-December	Foxtail orchid, Blunt rhychostylis	I
219	<i>Vanda testaceae</i> (Lindl.) Rchb.f	H	NE	April-July	Small flowered vanda	I
Orobanchaceae						
220	<i>Aeginetia indica</i> L.	H	LC	July-December	Forest Ghost Flower	I
221	<i>Buchnera hispida</i> Buch.-Ham. Ex D.Don	H	NE	September-April	Karanji	I
222	<i>Sopubia trifida</i> Buch. –Ham. Ex D.Don	H	NE	November-May	Split leaf sopubia	I
Oxalidaceae						
223	<i>Biophytum sensitivum</i> (L.) DC.	H	NE	Throughout year	Tropical Little tree, Horamuchaka	I
224	<i>Oxalis corniculata</i> L.	H	NE	Throughout year	Creeping Wood Sorrel, Neerugoli	I
Passifloraceae						
225	<i>Passiflora foetida</i> L.	Cs	NE	June-December	Common Passion, Stinking passion flower	E
Phyllanthaceae						
226	<i>Breynia retusa</i> (Dennst.) Alston	S	LC	February-	Cup Saucer plant, Gurige	I

				December		
227	<i>Bridelia stipularis</i> (L.) Blume	S	LC	May-March	Climbing Bridelia, Akshathe balli	I
228	<i>Flueggea leucopyrus</i> Willd.	S	LC	July-November	Bushweed, Indian snow berry, Bilihuli	I
229	<i>Phyllanthus emblica</i> L.	T	LC	October-May	Indian Gooseberry, Amlika, Bettada nelli kaayi	I
230	<i>Phyllanthus fraternus</i> G. L. Webster	H	NE	April-January	Gulf leaf flower, Nelanelli	E
Plumbaginaceae						
231	<i>Plumbago zeylanica</i> L.	Us	NE	Throughout year	White leadwort, Chitrak, Chitramulike	I
Poaceae						
232	<i>Alloteropsis cimicina</i> (L.) Stapf	H	NE	June-September	Summer Grass, Bug-seed grass	I
233	<i>Apluda mutica</i> L.	H	NE	Throughout year	Mauritian Grass, Kaadu hanchi hullu	I
234	<i>Bambusa vulgaris</i> Schrad. Ex J. C. Wendl	S	NE	July-February	Common Bamboo, Golden Bamboo	E
235	<i>Cenchrus ciliaris</i> L.	H	LC	July-December	Buffel Grass	I
236	<i>Chloris barbata</i> Sw.	H	NE	August-December	Swollen finger grass, Feather grass	I
237	<i>Echinochloa colonum</i> (L.) Link	H	LC	July-October	Jungle Rice, Shama millet, Kaadu haaraka	I
238	<i>Imperata cylindrica</i> (L.) Raeusch.	H	LC	March-November	Cogon grass	E
239	<i>Setaria flavida</i> (Retz.) Veldkamp	H	NE	July-December	Yellow Watercrown Grass	I
Polygonaceae						
240	<i>Polygonum plebeium</i> R.Br.	H	LC	December-June	Small knotweed, Kempu nela akki	I
Ranunculaceae						
241	<i>Clematis zeylanica</i> (L.) Poir	L	NE	September-March	Ceylon Clematis, Agniballi	I
Rhamanaceae						

242	<i>Ziziphus horrida</i> Roth	T	LC	September-February	Jujube	I
243	<i>Ziziphus mauritiana</i> Lam.	T	LC	December-April	Indian jujube, Bore	I
244	<i>Ziziphus rugosa</i> Lam.	Cs	LC	January-July	Wild Jujube	I
Rubiaceae						
245	<i>Adina cordifolia</i> (Roxb.) Brandis	T	LC	October-June	Yellow teak, Arisina tega	I
246	<i>Canthium coromandelicum</i> (Burm.f.) Alston	S	NE	April-June	Carray cheddie, Kaare gida	I
247	<i>Catunaregam spinosa</i> (Thunb.) Tirveng.	S	LC	Throughout year	Mountain Pomegranate	I
248	<i>Hymenodictyon obovatum</i> Wall.	T	LC	August-December	Kadwa Sirid, Bogimara	I
249	<i>Meyna laxiflora</i> Robyns	T	NE	January-August	Muyna, Achura mullu	I
250	<i>Mitragyna parvifolia</i> (Roxb.) Korth	T	LC	March-December	True Kadamba, Kaim	I
251	<i>Pavetta crassicaulis</i> Bremek.	T	LC	June-December	Papari	I
252	<i>Pavetta indica</i> L.	T	LC	May-November	Indian pavetta	I
253	<i>Spermadictyon suaveolens</i> Roxb.	S	NE	August-March	Forest champa	I
254	<i>Tamilnadia uliginosa</i> (Retz.) Tirveng. & Sastre	T	LC	April-January	Divine Jasmine, Doddakaare	I
Rutaceae						
255	<i>Chloroxylon swietenia</i> DC.	T	VU	January-August	Ceylon Satinwood	I
256	<i>Zanthoxylum rhetsa</i> (Roxb.) DC.	T	LC	March-October	Indian Prickly Ash	I
Salicaceae						
257	<i>Casearia tomentosa</i> Roxb.	T	LC	February-August	Toothed leaf chilla	I
258	<i>Flacourtia indica</i> (Burm.f.) Merr.	S	LC	December-August	Indian plum, Hettari mullu	I
Santalaceae						
259	<i>Viscum articulatum</i> Burm.f.	S	NE	November-June	Leafless mistletoe	I
260	<i>Viscum</i> sp.	T	NT,VU,LC,NE	November-March		I
Sapindaceae						
261	<i>Allophylus cobbe</i> (L.) Forsyth f.	T	LC	May-January	Indian Allophylus, Kasaballi	I

262	<i>Cardiospermum halicacabum</i> L.	C	LC	April-November	Balloon vine, Heart pea	I
263	<i>Sapindus emarginatus</i> Vahl	T	NE	February-December	Notched leaf soapnut, Antuvaala, Norekaayi	I
264	<i>Sapindus saponaria</i> L.	T	LC	November-February	Western soapnut	E
265	<i>Sapindus trifoliatus</i> Vahl	T	DD	October-December	South Indian soapnut, Soapberry	I
266	<i>Schleichera oleosa</i> (Lour.) Oken	T	LC	February-August	Ceylon Oak, Kusum, Kendala	I
Smilacaceae						
267	<i>Smilax ovalifolia</i> Roxb. ex D. Don	C	NE	August	Large-leaf smilax	I
Solanaceae						
268	<i>Brugmansia arborea</i> (L.) Sweet	S	EW	December-March	Angel's trumpet	E
Ulmaceae						
269	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	T	LC	December-June	Indian Elm, Jungle cork tree, Tapasi mara	I
Verbenaceae						
270	<i>Duranta erecta</i> L.	S	LC	Throughout year	Sky flower, Golden dew drop, Pigeon Berry	E
271	<i>Lantana camara</i> L.	S	NE	Throughout year	Lantana, Kasooti hoo, Chaduranga	E
Vitaceae						
272	<i>Ampelocissus indica</i> (L.) Planch.	C	NE	March-September	Red-Stemmed Wild Grape-Vine, Chemballi	I
273	<i>Cissus repanda</i> (Wight & Arn.) Vahl	Cs	NE	February-September	Pani Bel, Mudi balli	I
274	<i>Cissus vitiginea</i> L.	C	NE	May-November	South Indian Treebine	I
275	<i>Cyphostemma auriculatum</i> (Roxb.) P. Singh & B.V. Shetty	Cs	DD	May-October	Eared Cyphostemma	I
276	<i>Leea asiatica</i> (L.) Ridsdale	S	LC	June-September	Asiatic Leea	I
Zingiberaceae						
277	<i>Curcuma aromatica</i> Salisb.	H	NE	April-December	Wild turmeric, Aromatic turmeric	I

Zygophyllaceae						
278	<i>Tribulus terrestris</i> L.	H	LC	Throughout year	Puncture Vine, Negalmullu	I

SS- subshrub; 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

UNDER PEER REVIEW

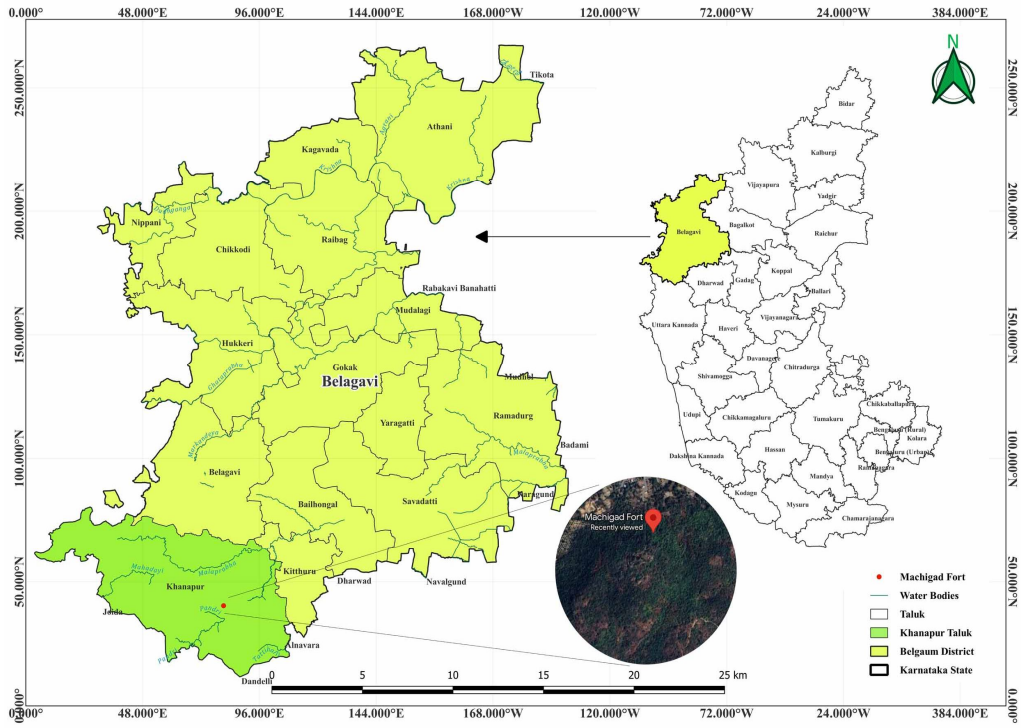


Fig. 01. Study area showing Machigad fort, Halshi, Khanapur, Belgavi

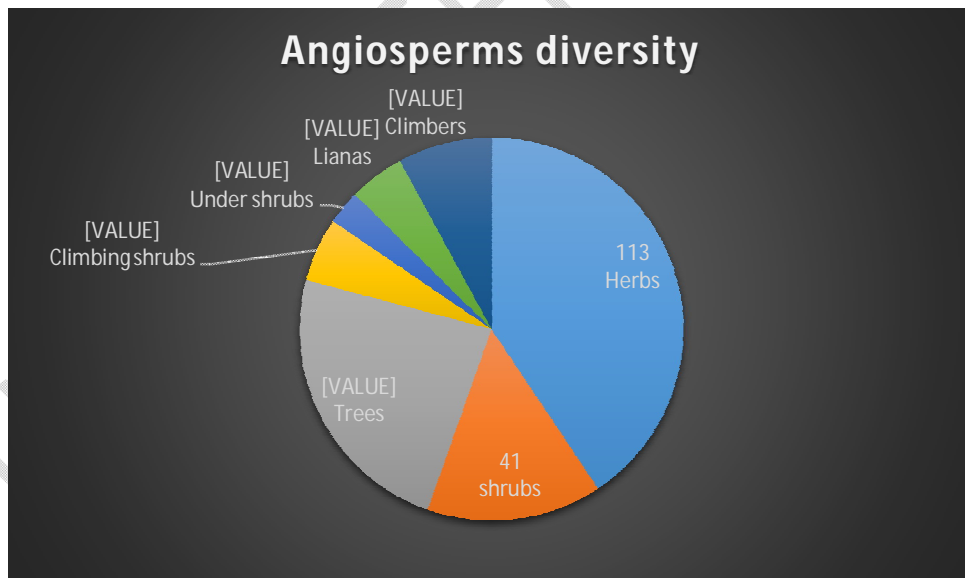


Fig. 02. Habit wise Angiosperm diversity at Machigad Fort, Halshi, Belgavi

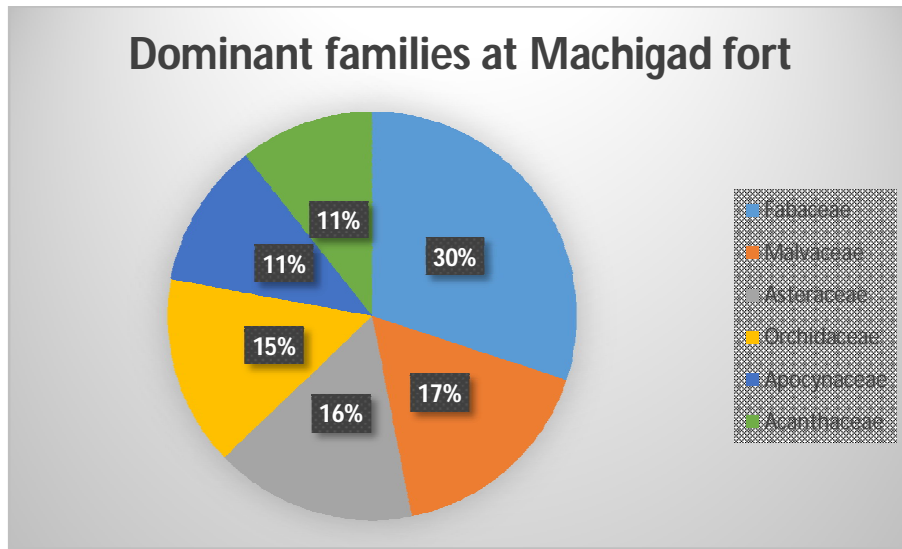


Fig. 03. Dominant families at Machigad Fort, Halshi, Belgavi

UNDER PEER REVIEW

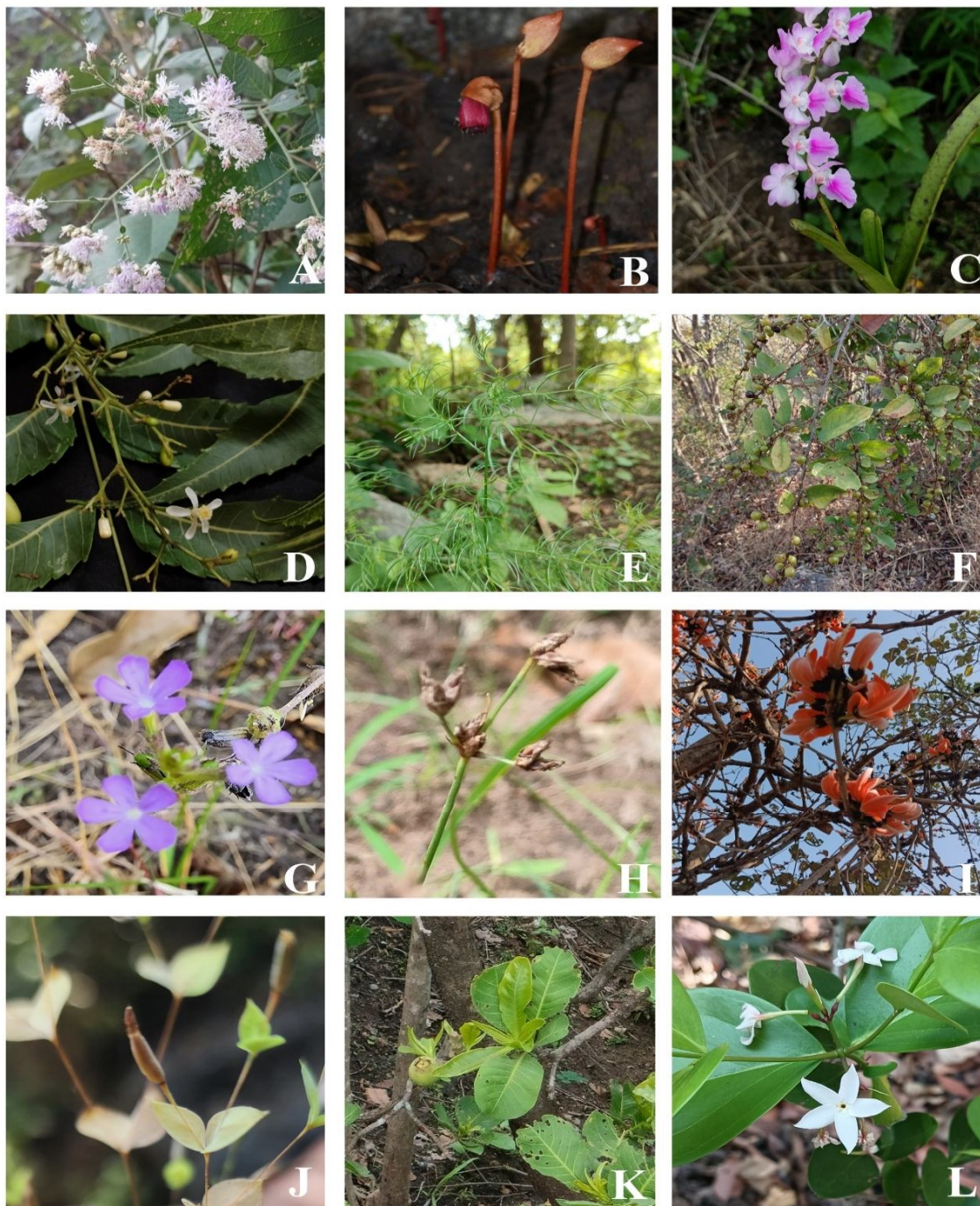


Fig. 04:Habit: **A.** *Acilepis heynei* (Bedd. Ex Gamble) H.Rob. & Skvarla; **B.** *Aeginetia indica* L.; **C.** *Aerides maculosa* Lindl.; **D.** *Azadirachta indica* A.Juss.; **E.** *Asparagus racemosus* Willd.; **F.** *Bridelia stipularis* (L.)Blume; **G.** *Buchnera hispida* Buch.-Ham. Ex D.Don; **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.

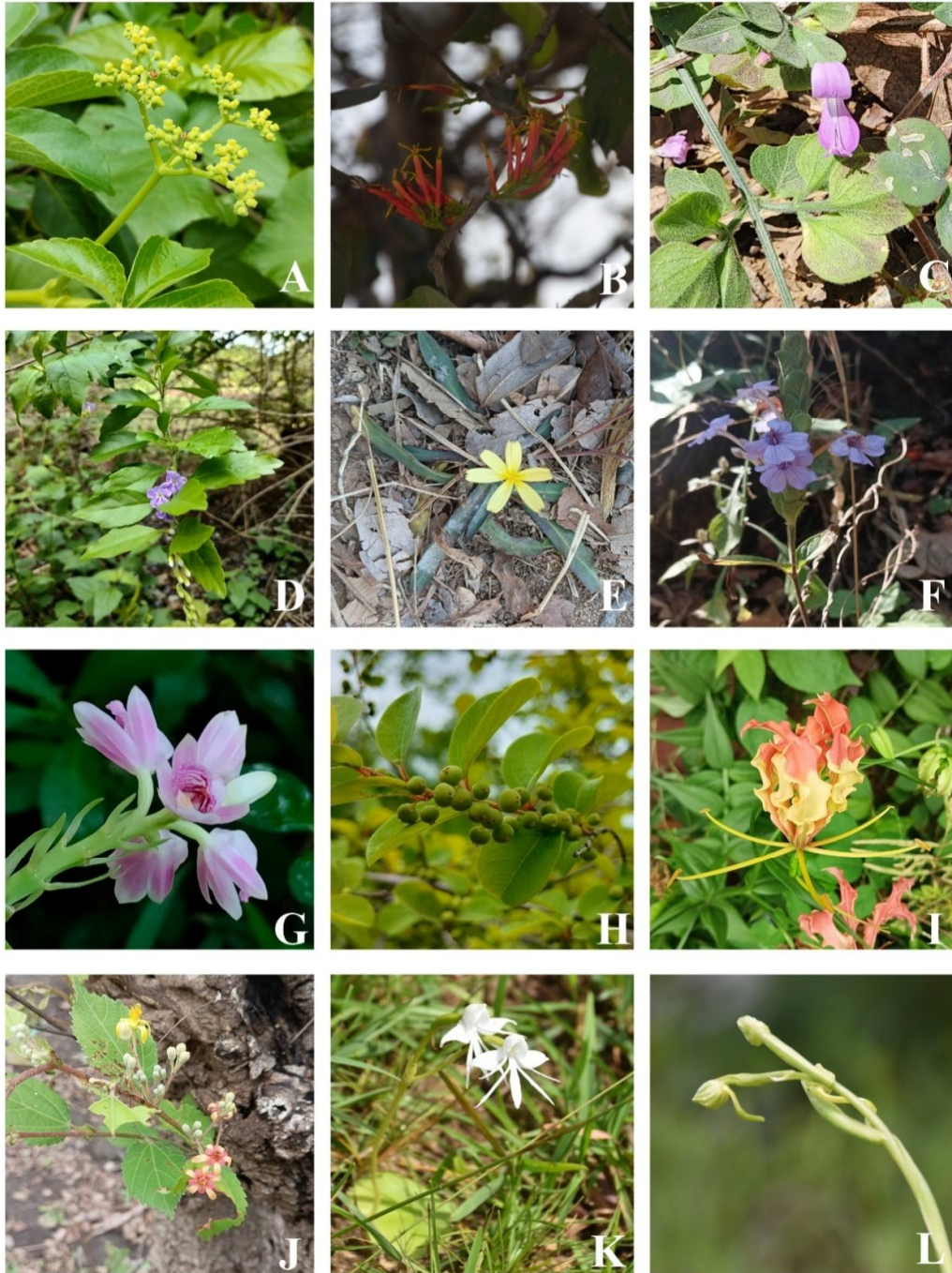


Fig.06: **A.** *Cyphostemma auriculatum* (Roxb.) P.Singh. and B.V.Shetty; **B.** *Dendrophthoe falcate* (L.f.) Ettingsh.; **C.** *Dicliptera foetida* (Forssk.) Blatt.; **D.** *Duranta erecta* L.; **E.** *Elephantopus scaber* L.; **F.** *Eranthemum roseum* (Vahl) R.Br. ex Roem. and Schult.; **G.** *Eulophia 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;

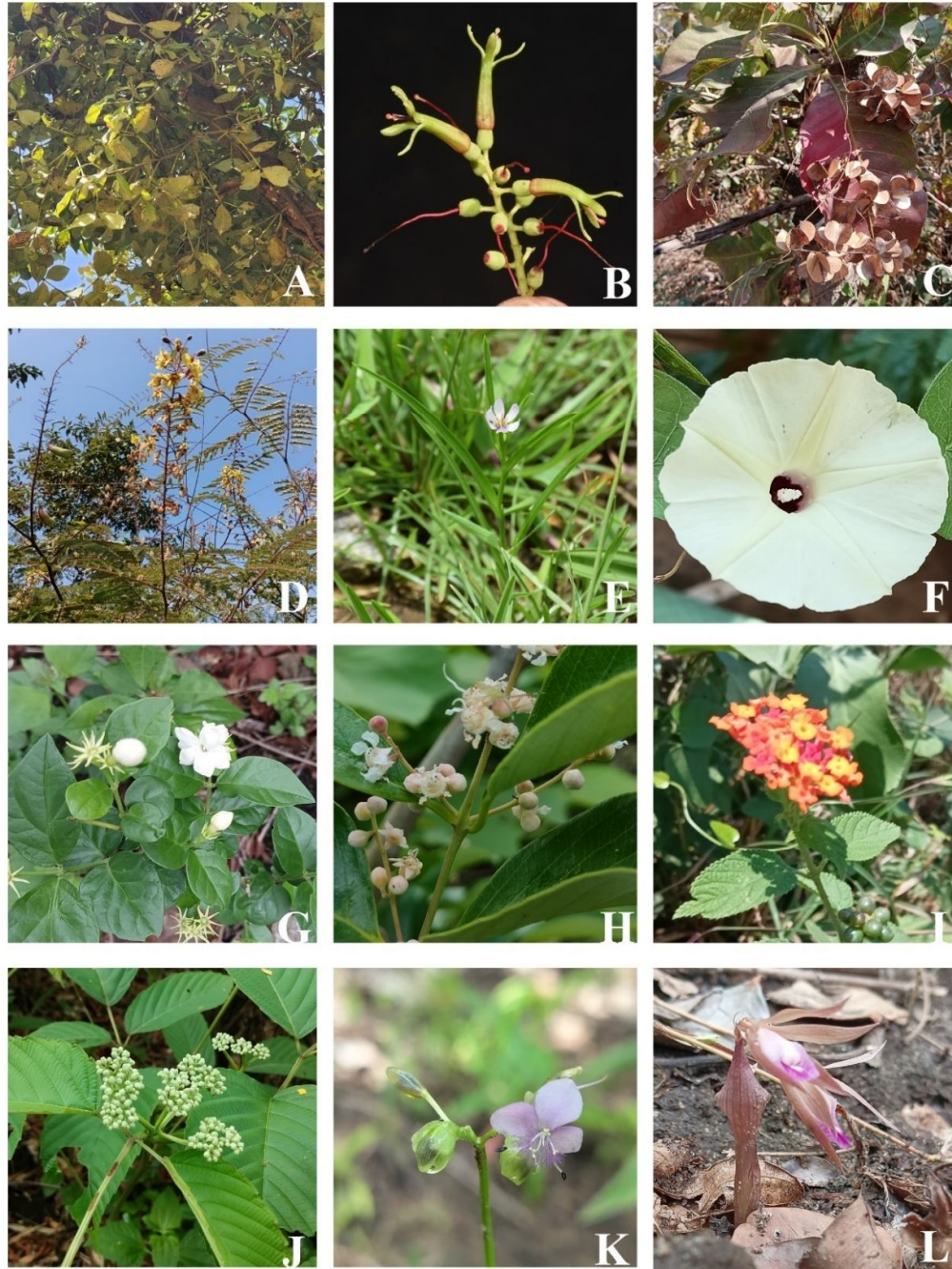


Fig. 07: **A.** *Helicanthes elastic* (Desr.) Danser; **B.** *Helixanthera obtusata* (Wall. Ex Wight & Arn.) Danser; **C.** *Holoptelea integrifolia* (Roxb.) Planch.; **D.** *Hultholia mimosoides* (Lam.) Gagnon & G.P.Lewis; **E.** *Iphigenia pallid* Baker; **F.** *Ipomoea obscura* (L.) Ker Gawl.; **G.** *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.;

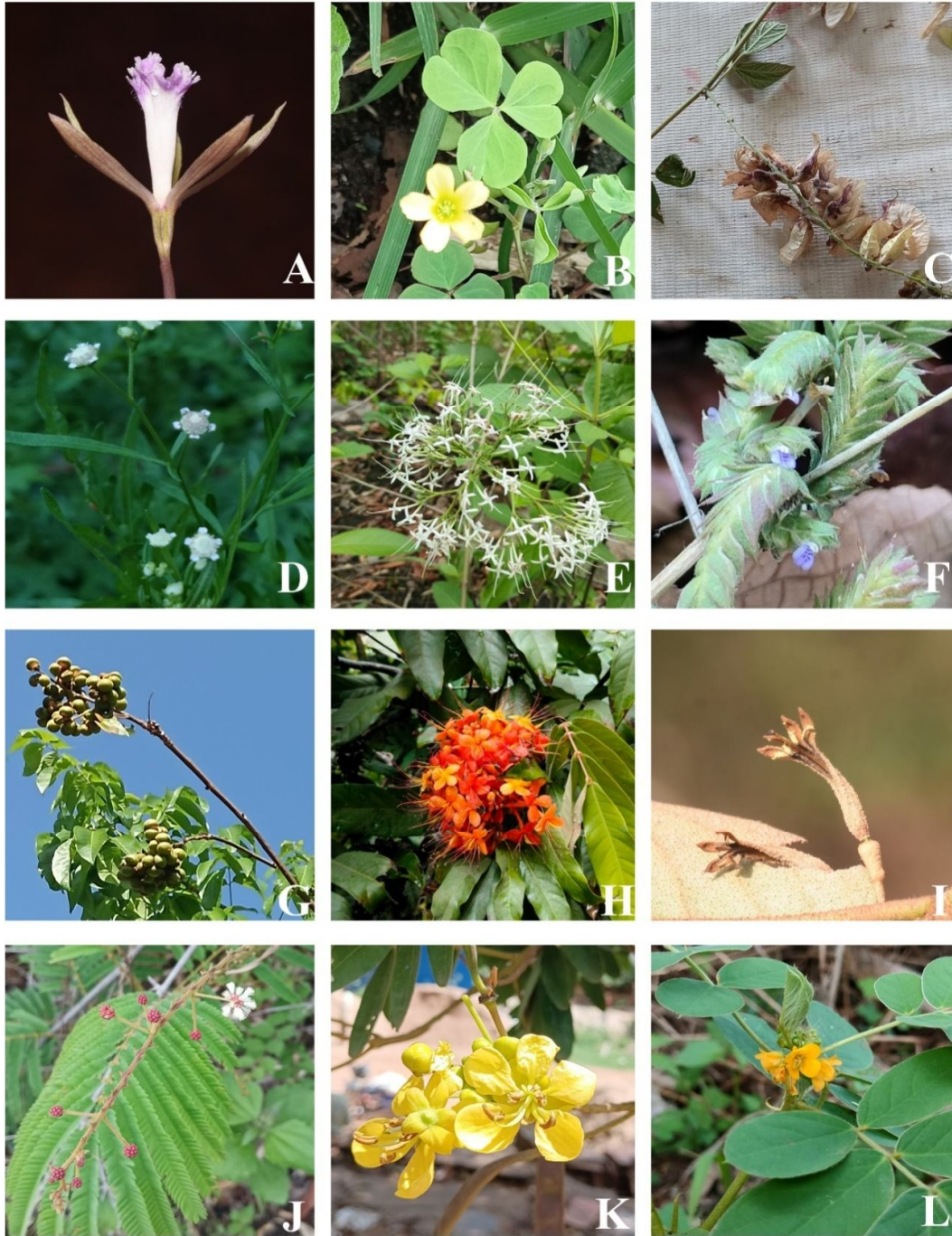


Fig. 08:A. *Nervilia simplex* (Thouars) Schltr; B. *Oxalis corniculata* L.; C. *Paracalyx scariosus* (Roxb.) Ali; D. *Parthenium hysterophorus* L.; E. *Pavetta indica* L.; F. *Rungia muralis* Royle ex Nees; G. *Sapindus trifoliatus* L.; H. *Saraca asoca* (Roxb.) W. J. de Wilde; I. *Scurrula parasitica* 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.