



Floristic diversity in the Kallar Corridor Western Ghats, Coimbatore

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Abstract

This study was conducted in the Kallar Corridor at Western Ghats, Coimbatore. A total of 332 species belonging to 74 families of plant species were recorded. This is an initial attempt to collect the plant species from the study area and it is preliminary for assess the vegetation status. Plant species were collected and identified in the various seasons. Among the plant species a total of 66 families belonging to 281 species were dicotyledons and 8 families belonging to 51 species were monocotyledons. Poaceae, Euphorbiaceae and Fabaceae were found to be the major plant families in the Kallar Corridor. Many endemic and threatened plant species also found in the study area such as *Ligustrum perrottetii*, *Bridelia crenulata*, *Pterocarpus marsupium*, *Argyrea cuneata* and *Santalum album*.

Keywords: plant species diversity and status of endemic and threatened plants

1. Introduction

The Western Ghats form a more or less continuous mountain chain over a distance of about 1600 km along the western coast of India. The western slopes and summits of these reliefs experience the full intensity of the summer monsoon, which, as a result of orographic effect, brings abundant rainfall, sometimes more than 7000 mm at few places. Such conditions have enabled the growth of dense, humid forest formations from the coast up to the summit of the Ghats (Pascal *et al.* 2004). Forest corridors are narrow strips of forests connecting two habitats that facilitates major functions such as exchange of genes between populations, dispersal, access to seasonal foraging grounds and prevention of faunal collapse due to extinction (Sivaganesan and Sukumar, 2000^[15], Yoganand *et al.* (2007)^[18]. Being a large area Kallar corridors is playing a major role as home for many fauna and flora species (endemic and threatened plant species) (Fyson (1932)^[4], Nayar and Henry (1983)).

2. Materials and Methods

2.1 Study area

Kallar corridor is located in the forested foot hills of Nilgiris of Western Ghats of Southern India (Thirumaran and Renganathan, 2014)^[17]. It falls in Mettupalayam Forest Range of Coimbatore Forest Division. It is a part of Coimbatore forest that extends from the Southern Mysore plateau, northern slopes of Nilgiris, Sigur plateau and Sathyamangalam forest of the Eastern Ghats, upto the northern edge of Palghat gap and in the West up to Silent Valley and new Amarambalam forests (Sugumar and Jayaparvathy, 2013)^[16]. This corridor also harbours for several species of plant and animals which are comes under endemic and threatened category (IUCN 2018.2)^[6]. This corridor extends from 76.85° and 76.91° east to 11.31 and 11.36° north. It borders the Odanthurai and Nellithurai valleys in Mettupalayam taluk. The corridor is bordered to its west and north by the steep slopes of the Nilgiri hills, to the south by Pillur slopes and to the east by arecanut

plantations and agriculture fields (Arivazhagan and Ramakrishnan, 2010)^[3].

3. Methodology

Frequent floristic surveys were conducted between January 2016 to December 2016 in the Kallar Corridor to collect the plant species. Herbarium specimens were prepared as per Jain & Rao's (1977)^[7] manual. The plants recorded by the pioneer workers of the study area from Madras Herbarium, Botanical Survey of India, Southern Regional Centre, Coimbatore and literature were indexed. Identifications were made with the help of Floras (Gamble (1915-36)^[5], Ahmedullah (1987)^[1], Matthew (1983), Nayar and Henry (1983), Singh *et al.* (2000)^[14] and Monographs. Identified Specimens were compared with the authentic and type specimens deposited in Madras Herbarium (MH), Botanical survey of India Southern Regional Centre, Coimbatore.

4. Results and Discussion

In our study site we have recorded 332 species belonging to 74 families were recorded during the our floristic survey. Of these, 88 were tree species, 59 shrubs, 57 climbers and 128 herbs (Table 1). Similarly a total of, 92 species belonging to 34 families were recorded in the Western Ghats, Anaikatty Hills. Of these 53 were tree species and 39 shrub species (Anitha *et al.* 2007)^[2]. Poaceae represented the highest number of plant species (34 species) followed by Fabaceae (22 species), Euphorbiaceae (20 species), Acanthaceae (15 species), Rubiaceae (13 species), Caesalpiniaceae (12 species), Asclepiadaceae and Asteraceae (11 species in each) and Malvaceae (10 species) (Fig. 1 & Fig. 2). Sindhuja *et al.* (2012)^[13] recorded Acanthaceae (16 species), followed by Amaranthaceae (15 species) and Asteraceae and Lamiaceae were represented 9 species in the Maruthamalai Hills, Southern Western Ghats, India. The highest number of species recorded for Poaceae, Amaranthaceae and Papillinoideae in the Arunachalauram village in Virudhunagar district, Tamilnadu (Kuralarasi *et*

al. (2017) [8]. Fourteen threatened and endemic (Ahmedullah and Nayar, 1987) [1] plant species were recorded during our study such as *Mangifera indica*, *Santalum album*, *Pterocarpus marsupium*, *Psydrax dicoccos*, *Ligustrum perrottetii*, *Bridelia crenulata*, *Capparis zeylanica*, *Clausena dentata* etc., (IUCN 2018.2) [6] (Table 2). In our study area *Ageratina adenophora*, *Lantana camara*, *Opuntia stricta*, *Solanum* sps. And *Parthenium*

hysterophorus were dominant exotic species. Ramakrishnan et al. (1997) reported grazing was a serious problem in Sathyamangalam and Coimbatore forest divisions especially in the Sujalkuttai – Bannari corridor and Kallar – Vedar colony corridor. They observed grazing has drastically altered the ground cover and has led to an increase in exotic weeds like *Lantana camara*, *Opuntia stricta* and *Stachytarpheta jamaicensis*.

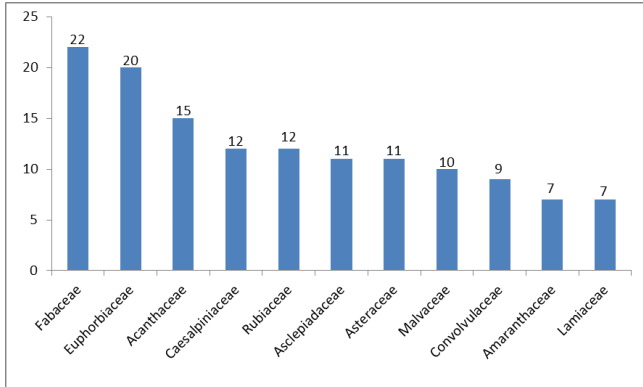


Fig 1: Dominant dicot plant families with maximum species occurrence

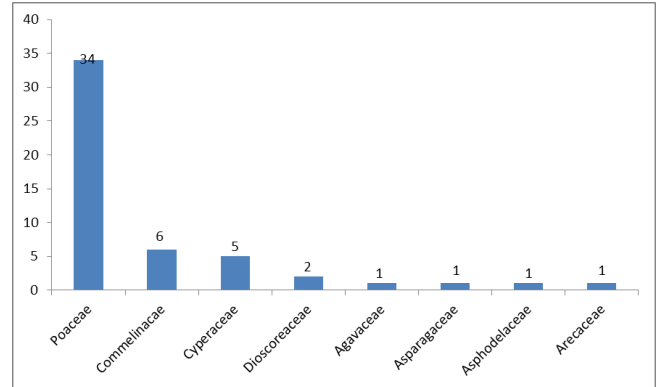


Fig 2: Monocot plant families with species occurrence

Table 1: Checklist of plant species recorded in the Kallar Corridor, Coimbatore

S. No.	Plant species	Habit	Family
1	<i>Abrus precatorius</i> L.	Climber	Fabaceae
2	<i>Abutilon crispum</i> (L.) Medicus	Shrub	Malvaceae
3	<i>Abutilon indicum</i> (L.)	Shrub	Malvaceae
4	<i>Acacia caesia</i> Wild. Incha	Climber	Mimosaceae
5	<i>Acacia chundra</i> (Roxb. ex Rottl.) Wild.	Tree	Mimosaceae
6	<i>Acacia leucophloea</i> (Roxb.) Wild.	Tree	Mimosaceae
7	<i>Acacia torta</i> (Roxb.) Craib	Shrub	Mimosaceae
8	<i>Acalypha fruticosa</i> Forssk.	Shrub	Euphorbiaceae
9	<i>Acanthospermum hispidum</i> DC.	Herb	Asteraceae
10	<i>Achyranthes aspera</i> L. var. <i>aspera</i>	Herb	Amaranthaceae
11	<i>Aerva lanata</i> (L.) Juss. ex Schultes	Herb	Amaranthaceae
12	<i>Aganosma cymosa</i> (Roxb.) G.Don	Climber	Apocynaceae
13	<i>Agave americana</i> L.	Shrub	Agavaceae
14	<i>Ageratina adenophora</i> (Spreng.) R.King & H. Robinson	Shrub	Asteraceae
15	<i>Ageratum conyzoides</i> L.	Herb	Asteraceae
16	<i>Ailanthus excelsa</i> Roxb.	Tree	Simaroubaceae
17	<i>Alangium salvifolium</i> (L.f.) Wang. subsp. <i>salvifolium</i>	Tree	Alangiaceae
18	<i>Albizia amara</i> (Roxb.) Boivin	Tree	Mimosaceae
19	<i>Albizia lebbeck</i> (L.) Wild.	Tree	Mimosaceae
20	<i>Albizia odoratissima</i> (L.f.) Benth. var. <i>odoratissima</i>	Tree	Mimosaceae
21	<i>Albizia saman</i> (Jacq.) Merr.	Tree	Mimosaceae
22	<i>Alloteropsis cimicina</i> (L.) Stapf	Herb	Poaceae
23	<i>Aloe vera</i> (L.) Burm.f.	Herb	Asphodelaceae
24	<i>Alseodaphne semecarpifolia</i> Nees.	Tree	Lauraceae
25	<i>Alternanthera sessilis</i> (L.) R.Br. ex DC.	Herb	Amaranthaceae
26	<i>Alternanthera tenella</i> Colla.	Herb	Amaranthaceae
27	<i>Alysicarpus monilifer</i> (L.) DC.	Herb	Fabaceae
28	<i>Alysicarpus racemosus</i> Benth.	Herb	Fabaceae
29	<i>Amaranthus spinosus</i> L.	Herb	Amaranthaceae
30	<i>Amaranthus viridis</i> L.	Herb	Amaranthaceae
31	<i>Andrographis echioides</i> (L.) Nees	Herb	Acanthaceae
32	<i>Andrographis lineata</i> (Burm.f.) Wall. ex Nees	Herb	Acanthaceae
33	<i>Andrographis paniculata</i> (Burm.f.) Wall. ex Nees	Herb	Acanthaceae
34	<i>Anisomeles indica</i> (L.) Kuntze	Herb	Lamiaceae
35	<i>Anisomeles malabarica</i> (L.) R. Br. ex Sims	Herb	Lamiaceae
36	<i>Annona reticulata</i> L.	Tree	Annonaceae
37	<i>Anogeissus latifolia</i> (Roxb. Ex DC.) Wall ex Guill. & Perr.	Tree	Combretaceae
38	<i>Apluda mutica</i> L.	Herb	Poaceae
39	<i>Argyrea cuneata</i> (Willd.) Ker-Gawl.	Climber	Convolvulaceae

40	<i>Argyrea nervosa</i> (Burm.f.) Boj.	Climber	Convolvulaceae
41	<i>Argyrea sericea</i> Dalz.	Climber	Convolvulaceae
42	<i>Aristida adscensionis</i> L.	Herb	Poaceae
43	<i>Aristida hystrix</i> L.	Herb	Poaceae
44	<i>Aristida setacea</i> Retz.	Herb	Poaceae
45	<i>Aristolochia indica</i> L.	Climber	Aristolochiaceae
46	<i>Artocarpus heterophyllus</i> Lam.	Tree	Moraceae
47	<i>Arundinella pumila</i> (Hochst. ex A. Rich) Steud.	Herb	Poaceae
48	<i>Arundinella setosa</i> Trin. var. <i>setosa</i>	Herb	Poaceae
49	<i>Asclepias curassavica</i> L.	Herb	Asclepiadaceae
50	<i>Asparagus racemosus</i> Willd.	Climber	Asparagaceae
51	<i>Asystasia gangetica</i> (L.) T. And.	Herb	Acanthaceae
52	<i>Atalantia monophylla</i> (L.) Correa	Tree	Rutaceae
53	<i>Atylosia scarabeoides</i> (L.) Benth.	Climber	Fabaceae
54	<i>Azadirachta indica</i> A. Juss.	Tree	Meliaceae
55	<i>Azima tetracantha</i> Lam.	Shrub	Salvadoraceae
56	<i>Bambusa bambos</i> Voss	Woody grass	Poaceae
57	<i>Barleria buxifolia</i> L.	Shrub	Acanthaceae
58	<i>Barleria cristata</i> L.	Shrub	Acanthaceae
59	<i>Barleria prionitis</i> L.	Shrub	Acanthaceae
60	<i>Bauhinia racemosa</i> Lam.	Tree	Caesalpiniaceae
61	<i>Bauhinia vahlii</i> Wight & Arn.	Climber	Caesalpiniaceae
62	<i>Benkara malabarica</i> (Lam.) Tirvengadam	Shrub	Rubiaceae
63	<i>Bidens pilosa</i> L. var. <i>minor</i> (Blume) Sherff	Herb	Asteraceae
64	<i>Biophytum sensitivum</i> (L.) DC. var. <i>sensitivum</i>	Herb	Oxalidaceae
65	<i>Blepharis maderaspatensis</i> (L.) Heyne ex Roth	Shrub	Acanthaceae
66	<i>Boerhavia diffusa</i> L.	Herb	Nyctaginaceae
67	<i>Boerhavia erecta</i> L.	Herb	Nyctaginaceae
68	<i>Bothriochloa pertusa</i> (L.) A. Camus	Herb	Poaceae
69	<i>Brachiaria semiundulata</i> (Hochst. ex A. Rich)	Herb	Poaceae
70	<i>Breynia vitis-idaea</i> (Burm.f.) Fischer	Shrub	Euphorbiaceae
71	<i>Bridelia crenulata</i> Roxb.	Tree	Euphorbiaceae
72	<i>Bulbostylis barbata</i> (Rottb.) Clarke	Herb	Cyperaceae
73	<i>Calotropis gigantea</i> (L.) R.Br.	Shrub	Asclepiadaceae
74	<i>Capparis grandis</i> L.	Tree	Capparidaceae
75	<i>Capparis roxburghii</i> DC.	Woody climber	Capparidaceae
76	<i>Capparis sepiaria</i> L.	Shrub	Capparidaceae
77	<i>Capparis zeylanica</i> L.	Shrub	Capparidaceae
78	<i>Caralluma bicolor</i> Ramach, S. Joseph, H. A. John & C. Sofiya	Herb	Asclepiadaceae
79	<i>Cardiospermum canescens</i> Wall.	Climber	Cochlospermaceae
80	<i>Cardiospermum halicacabum</i> L.	Climber	Sapindaceae
81	<i>Carex lindleyana</i> Nees var. <i>lindleyana</i>	Herb	Cyperaceae
82	<i>Carissa carandas</i> L.	Shrub	Apocynaceae
83	<i>Carissa spinarum</i> L. var. <i>spinarum</i>	Shrub	Apocynaceae
84	<i>Carmona retusa</i> (Vahl) Masamune	Shrub	Boraginaceae
85	<i>Cassia fistula</i> L.	Tree	Caesalpiniaceae
86	<i>Cassia siamea</i> Lam.	Small Tree	Caesalpiniaceae
87	<i>Cassine glauca</i> (Rottb.) Kuntze	Tree	Celastraceae
88	<i>Catunaregam spinosa</i> (Thunb.) Tirvengadam	Tree	Rubiaceae
89	<i>Ceiba pentandra</i> (L.) Gaertn.	Tree	Bombacaceae
90	<i>Celtis philippensis</i> Blanco var. <i>wightii</i> (Planch.) Soep.	Tree	Ulmaceae
91	<i>Cenchrus glaucus</i> Mudaliar & Sundararaj	Herb	Poaceae
92	<i>Cereus pterogonus</i> Lem.	Shrub	Cactaceae
93	<i>Ceropegia juncea</i> Roxb.	Climber	Asclepiadaceae
94	<i>Chloris barbata</i> Sw.	Herb	Poaceae
95	<i>Chloris dolichostachya</i> Lagasca	Herb	Poaceae
96	<i>Chloris montana</i> Roxb.	Herb	Poaceae
97	<i>Chloroxylon swietenia</i> DC.	Tree	Rutaceae
98	<i>Chromolaena odorata</i> (L.) King & Robinson	Shrub	Asteraceae
99	<i>Chrysopogon hackelii</i> (Hook.f.) Fischer	Herb	Poaceae
100	<i>Cissampelos pareira</i> L. var. <i>hirsuta</i> (Buch.-Ham. ex DC.) Forman	Climber	Menispermaceae
101	<i>Cissus adnata</i> Roxb.	Climber	Vitaceae
102	<i>Cissus quadrangularis</i> L.	Shrub	Vitaceae
103	<i>Clausena dentata</i> (Willd.) M. Roem	Shrub	Rutaceae
104	<i>Cleome aspera</i> Koen ex. DC.	Herb	Capparidaceae
105	<i>Cleome viscosa</i> L.	Herb	Capparidaceae
106	<i>Clerodendrum inerme</i> (L.) Gaertn.	Shrub	Verbenaceae
107	<i>Clitoria ternatea</i> L.	Climber	Fabaceae

108	<i>Coccinia grandis</i> (L.) Voigt	Climber	Cucurbitaceae
109	<i>Cocculus hirsutus</i> (L.) Diels	Climber	Menispermaceae
110	<i>Cocculus pendulus</i> (Forst.) Diels	Climber	Menispermaceae
111	<i>Cochlospermum religiosum</i> (L.) Alston	Climber	Cochlospermaceae
112	<i>Commelina benghalensis</i> L.	Herb	Commelinaceae
113	<i>Commelina clavata</i> Clarke	Herb	Commelinaceae
114	<i>Commelina diffusa</i> Burm	Herb	Commelinaceae
115	<i>Commiphora berryi</i> (Arn.) Engler	Small Tree	Burseraceae
116	<i>Commiphora caudata</i> (Wight & Arn.) Engler var. <i>caudata</i>	Tree	Burseraceae
117	<i>Corallocarpus epigaeus</i> (Rottl. & Willd.) Clarke	Climber	Cucurbitaceae
118	<i>Corchorus fascicularis</i> Lam.	Herb	Tiliaceae
119	<i>Corchorus olitorius</i> L.	Herb	Tiliaceae
120	<i>Cordia monoica</i> Roxb.	Tree	Ebenaceae
121	<i>Cordia obliqua</i> Willd.	Tree	Boraginaceae
122	<i>Crateva adansonii</i> DC. subsp. <i>odora</i> (Buch. - Ham.) Jacobs	Tree	Capparidaceae
123	<i>Crotalaria fysonii</i> Dunn.	Herb	Fabaceae
124	<i>Crotalaria laburnifolia</i> L.	Shrub	Fabaceae
125	<i>Crotalaria pallida</i> Dryand. var. <i>obovata</i> (G.Don) Polhill	Shrub	Fabaceae
126	<i>Crotalaria verrucosa</i> L.	Herb	Fabaceae
127	<i>Croton bonplandianum</i> Baill.	Herb	Euphorbiaceae
128	<i>Cryptolepis buchananii</i> Roem. & Schultes	Climber	Periplocaceae
129	<i>Curculigo orchioidea</i> Gaertn	Herb	Hypoxidaceae
130	<i>Cuscuta reflexa</i> Roxb.	Climber	Convolvulaceae
131	<i>Cyanotis arachnoidea</i> Clarke var. <i>arachnoidea</i>	Herb	Commelinaceae
132	<i>Cyanotis cristata</i> (L.) D. Don	Herb	Commelinaceae
133	<i>Cyanotis tuberosa</i> (Roxb.) Schultes & Schultes	Herb	Commelinaceae
134	<i>Cyclea peltata</i> (Lam.) Hook. f. & Thoms.	Climber	Menispermaceae
135	<i>Cymbopogon citratus</i> (DC.) Stapf	Herb	Poaceae
136	<i>Cynodon dactylon</i> (L.) Pers.	Herb	Poaceae
137	<i>Cyperus iria</i> L.	Herb	Cyperaceae
138	<i>Cyperus rotundus</i> L. subsp. <i>Rotundus</i>	Herb	Cyperaceae
139	<i>Cyrtococcum trigonum</i> (Retz.) A. Camus	Herb	Poaceae
140	<i>Dactyloctenium aegyptium</i> (L.) Willd.	Herb	Poaceae
141	<i>Dalbergia paniculata</i> Roxb.	Tree	Fabaceae
142	<i>Datura metal</i> L.	Shrub	Solanaceae
143	<i>Datura stramonium</i> L.	Shrub	Solanaceae
144	<i>Dendrocalamus strictus</i> (Roxb.) Nees	Shrub	Poaceae
145	<i>Dendrophthoe falcata</i> (L.f.) Etting. var. <i>falcata</i>	Shrub	Loranthaceae
146	<i>Desmodium triflorum</i> (L.) DC.	Herb	Fabaceae
147	<i>Dichanthium oliganthum</i> (Hochst.ex Steud.) Cope	Herb	Poaceae
148	<i>Dichrostachys cinerea</i> (L.) Wight & Arn.	Tree	Mimosaceae
149	<i>Digitaria bicornis</i> (Lam.) Roem. & Schultes ex Loud.	Herb	Poaceae
150	<i>Dioscorea bulbifera</i> L.	Climber	Dioscoreaceae
151	<i>Dioscorea oppositifolia</i> L. var. <i>oppositifolia</i>	Climber	Dioscoreaceae
152	<i>Diospyros melanoxylon</i> Roxb..	Tree	Ebenaceae
153	<i>Diospyros montana</i> Roxb.	Tree	Ebenaceae
154	<i>Diploclisia glaucescens</i> (Blume) Diels	Climber	Menispermaceae
155	<i>Diplocyclos palmatus</i> (L.) Jeffrey	Climber	Cucurbitaceae
156	<i>Dodonaea viscosa</i> (L.) Jacq.	Shrub	Sapindaceae
157	<i>Drypetes roxburghii</i> (Wall.) Hurusawa	Tree	Euphorbiaceae
158	<i>Drypetes sepiaria</i> (Wight & Arn.) Pax & Hoffm.	Tree	Euphorbiaceae
159	<i>Duranta erecta</i> L.	Shrub	Verbenaceae
160	<i>Eclipta prostrata</i> (L.) L.	Herb	Asteraceae
161	<i>Elaeagnus kologa</i> Schlecht.	Climber	Elaeagnaceae
162	<i>Emilia sonchifolia</i> (L.) DC.	Herb	Asteraceae
163	<i>Eragrostis maderaspatana</i> Bor	Herb	Poaceae
164	<i>Eragrostis tenella</i> (L.) P. Beauv ex Roem. & Schultes var. <i>tenella</i>	Herb	Poaceae
165	<i>Erythroxylum monogynum</i> Roxb.	Tree	Erythroxylaceae
166	<i>Erythrina variegata</i> L.	Tree	Fabaceae
167	<i>Euphorbia antiquorum</i> L.	Small Tree	Euphorbiaceae
168	<i>Euphorbia heterophylla</i> L.	Herb	Euphorbiaceae
169	<i>Euphorbia hirta</i> L.	Herb	Euphorbiaceae
170	<i>Euphorbia indica</i> Lam.	Herb	Euphorbiaceae
171	<i>Euphorbia thymifolia</i> L.	Herb	Euphorbiaceae
172	<i>Euphorbia tirucalli</i> L.	Tree	Euphorbiaceae
173	<i>Evolvulus alsinoides</i> (L.) L.	Herb	Convolvulaceae
174	<i>Ficus benghalensis</i> L. var. <i>benghalensis</i>	Tree	Moraceae
175	<i>Ficus microcarpa</i> L.f.	Tree	Moraceae

176	<i>Ficus racemosa</i> L.	Tree	Moraceae
177	<i>Fimbristylis dichotoma</i> (L.) Vahl subsp. <i>dichotoma</i>	Herb	Cyperaceae
178	<i>Fimbristylis ovata</i> (Burm. F.) Kern	Herb	Cyperaceae
179	<i>Flacourtia indica</i> (Burm.f.) Merr.	Shrub	Flacourtiaceae
180	<i>Flueggea leucopyrus</i> Willd.	Shrub	Euphorbiaceae
181	<i>Glycosmis mauritiana</i> (Lam.) Tanaka	Shrub	Rutaceae
182	<i>Gmelina asiatica</i> L.	Shrub	Verbenaceae
183	<i>Gomphrena serrata</i> L.	Herb	Amaranthaceae
184	<i>Grewia hirsuta</i> Vahl.	Shrub	Tiliaceae
185	<i>Grewia orbiculata</i> Rottl.	Tree	Tiliaceae
186	<i>Grewia tiliifolia</i> Vahl.	Tree	Tiliaceae
187	<i>Gymnema sylvestre</i> (Retz.) R.Br. ex Schultes	Climber	Asclepiadaceae
188	<i>Gyrocarpus asiaticus</i> Willd.	Tree	Hernandiaceae
189	<i>Haldina cordifolia</i> (Roxb.) Ridsdale	Tree	Rubiaceae
190	<i>Hardwickia binata</i> Roxb.	Tree	Caesalpiniaceae
191	<i>Helicteres isora</i> L.	Shrub	Sterculiaceae
192	<i>Heliotropium indicum</i> L.	Herb	Boraginaceae
193	<i>Hemidesmus indicus</i> (L.) R.Br. var. <i>indicus</i>	Climber	Periplocaceae
194	<i>Hibiscus micranthus</i> L.f.	Herb	Malvaceae
195	<i>Hibiscus vitifolius</i> L.	Herb	Malvaceae
196	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	Tree	Ulmaceae
197	<i>Hugonia mystax</i> L.	Climber	Linaceae
198	<i>Hygrophila schulli</i> (Hamilt.) M.R.Almeida & S.M. Almeida	Herb	Acanthaceae
199	<i>Ichnocarpus frutescens</i> (L.) R.Br.	Climber	Apocynaceae
200	<i>Indigofera linifolia</i> (L.f.) Retz.	Herb	Fabaceae
201	<i>Indigofera linnaei</i> Ali	Herb	Fabaceae
202	<i>Indigofera tinctoria</i> L.	Herb	Fabaceae
203	<i>Ipomoea hederifolia</i> L.	Climber	Convolvulaceae
204	<i>Ipomoea obscura</i> (L.) Ker-Gawl.	Climber	Convolvulaceae
205	<i>Ipomoea staphylina</i> Roem. & Schultes	Climber	Convolvulaceae
206	<i>Isachne globosa</i> (Thunb.) Kuntze	Herb	Poaceae
207	<i>Ixora pavetta</i> Andr.	Tree	Rubiaceae
208	<i>Jasminum angustifolium</i> (L.) Willd. var. <i>angustifolium</i>	Climber	Oleaceae
209	<i>Jasminum auriculatum</i> Vahl	Climber	Oleaceae
210	<i>Jasminum cuspidatum</i> Rottl.	Climber	Oleaceae
211	<i>Jasminum malabaricum</i> Wight	Climber	Oleaceae
212	<i>Jatropha gossypifolia</i> L.	Shrub	Euphorbiaceae
213	<i>Justicia japonica</i> Thunb.	Herb	Acanthaceae
214	<i>Justicia prostrata</i> (Roxb. ex Clarke) Gamble	Herb	Acanthaceae
215	<i>Kigelia africana</i> (Lam.) Benth.	Tree	Bignoniaceae
216	<i>Lantana camara</i> L.	Shrub	Verbenaceae
217	<i>Lepisanthes tetraphylla</i> (Vahl.) Radlk.	Tree	Sapindaceae
218	<i>Leptochloa obtusiflora</i> Hochst.	Herb	Poaceae
219	<i>Leucas aspera</i> (Willd.) Link	Herb	Lamiaceae
220	<i>Leucas biflora</i> (Vahl) R.Br. var. <i>biflora</i>	Herb	Lamiaceae
221	<i>Ligustrum perrottetii</i> DC.	Tree	Oleaceae
222	<i>Limonia acidissima</i> L.	Tree	Rutaceae
223	<i>Malvastrum coromandelianum</i> (L.) Garcke	Herb	Malvaceae
224	<i>Mangifera indica</i> L.	Tree	Anacardiaceae
225	<i>Martynia annua</i> L.	Herb	Martyniaceae
226	<i>Melia azedarach</i> L.	Tree	Meliaceae
227	<i>Mimosa pudica</i> L.	Herb	Mimosaceae
228	<i>Mimusops elengi</i> L.	Tree	Sapotaceae
229	<i>Mollugo nudicaulis</i> Lam.	Herb	Mollugaceae
230	<i>Mollugo pentaphylla</i> L.	Herb	Mollugaceae
231	<i>Mollugo stricta</i> L.	Herb	Mollugaceae
232	<i>Morinda pubescens</i> J.E. Smith var. <i>pubescens</i>	Tree	Rubiaceae
233	<i>Mukia maderaspatana</i> (L.) M. Roem.	Climber	Cucurbitaceae
234	<i>Murraya koenigii</i> (L.) Spreng.	Tree	Rutaceae
235	<i>Naringi crenulata</i> (Roxb.) Nicolson	Tree	Rutaceae
236	<i>Neonotonia wightii</i> (Wight & Arn.) J.A.Lackey	Climber	Fabaceae
237	<i>Ocimum basilicum</i> L. var. <i>basilicum</i>	Herb	Lamiaceae
238	<i>Ocimum gratissimum</i> L.	Shrub	Lamiaceae
239	<i>Ocimum tenuiflorum</i> L.	Herb	Lamiaceae
240	<i>Olax imbricata</i> Roxb. var. <i>imbricata</i>	Shrub	Olacaceae
241	<i>Olax scandens</i> Roxb.	Shrub	Olacaceae
242	<i>Oldenlandia umbellata</i> L.	Herb	Rubiaceae
243	<i>Opuntia stricta</i> (Haw.) Haw. var. <i>dillenii</i> (Ker Gawl.)L. D. Benson	Shrub	Cactaceae

244	<i>Oropetium thomaeum</i> (L.f.) Trin.	Herb	Poaceae
245	<i>Oxalis corniculata</i> L.	Herb	Oxalidaceae
246	<i>Pachygone ovata</i> (Poir.) Miers ex Hook. f. & Thoms.	Climber	Menispermaceae
247	<i>Panicum maximum</i> Jacq.	Herb	Poaceae
248	<i>Parthenium hysterophorus</i> L.	Herb	Asteraceae
249	<i>Passiflora foetida</i> L.	Climber	Passifloraceae
250	<i>Passiflora leschenaultii</i> DC.	Climber	Passifloraceae
251	<i>Pavetta indica</i> L. var. <i>indica</i>	Tree	Rubiaceae
252	<i>Pavonia odorata</i> Willd.	Herb	Malvaceae
253	<i>Pedaliium murex</i> L.	Herb	Pedaliaceae
254	<i>Peltophorum pterocarpum</i> (DC.)	Tree	Caesalpiniaceae
255	<i>Pentatropis capensis</i> (L.f.) Bullock	Climber	Asclepiadaceae
256	<i>Pergularia daemia</i> (Forrsk.) Chiov.	Climber	Asclepiadaceae
257	<i>Perotis indica</i> (L.) Kuntze var. <i>indica</i>	Herb	Poaceae
258	<i>Phoenix pusilla</i> Gaertn	Shrub	Arecaceae
259	<i>Phyllanthus amarus</i> Schum. & Thonn.	Herb	Euphorbiaceae
260	<i>Phyllanthus debilis</i> Klein ex Willd.	Herb	Euphorbiaceae
261	<i>Phyllanthus emblica</i> L.	Tree	Euphorbiaceae
262	<i>Phyllanthus maderaspatensis</i> L.	Herb	Euphorbiaceae
263	<i>Phyllanthus polyphyllus</i> Willd.	Tree	Euphorbiaceae
264	<i>Phyllanthus virgatus</i> Forst.	Herb	Euphorbiaceae
265	<i>Pleiospermium alatum</i> (Wall ex. Wight & Arn.) Swingle	Tree	Rutaceae
266	<i>Polygala arvensis</i> Willd.	Herb	Polygalaceae
267	<i>Polygala erioptera</i> DC.	Herb	Polygalaceae
268	<i>Pongamia pinnata</i> (L.) Pierre	Tree	Fabaceae
269	<i>Premna tomentosa</i> Willd.	Tree	Verbenaceae
270	<i>Psydrax dicoccos</i> Gaertn. var. <i>dicoccos</i>	Tree	Rubiaceae
271	<i>Pterocarpus marsupium</i> Roxb.	Tree	Fabaceae
272	<i>Pterolobium hexapetalum</i> (Roth.) Sant. & Wagh	Shrub	Caesalpiniaceae
273	<i>Randia malabarica</i> Lam	Tree	Rubiaceae
274	<i>Rhynchosia capitata</i> DC.	Climber	Fabaceae
275	<i>Rhynchosia densiflora</i> (Roth) DC.	Climber	Fabaceae
276	<i>Rivea hypocrateriformis</i> (Desr.) Choisy	Climber	Convolvulaceae
277	<i>Ruellia tuberosa</i> L.	Herb	Acanthaceae
278	<i>Santalum album</i> L.	Tree	Santalaceae
279	<i>Sapindus emarginatus</i> Vahl	Tree	Sapindaceae
280	<i>Sarcostemma acidum</i> (Roxb.) Voigt	Shrub	Asclepiadaceae
281	<i>Schleichera oleosa</i> (Lour.) Merr.	Tree	Sapindaceae
282	<i>Scutia myrtina</i> (Burm. f.) Kurz.	Shrub	Rhamnaceae
283	<i>Secamone emetica</i> (Retz.) R.Br. ex Schultes	Climber	Asclepiadaceae
284	<i>Senna auriculata</i> (L.) Roxb.	Tree	Caesalpiniaceae
285	<i>Senna hirsuta</i> (L.) Irwin & Barneby	Shrub	Caesalpiniaceae
286	<i>Senna occidentalis</i> (L.) Link	Shrub	Caesalpiniaceae
287	<i>Senna surattensis</i> (Burm.f) Irwin & Barneby	Tree	Caesalpiniaceae
288	<i>Setaria pumila</i> (Poir.) Roem. & Schultes	Herb	Poaceae
289	<i>Setaria verticillata</i> (L.) P. Beauv	Herb	Poaceae
290	<i>Sida acuta</i> Burm.f.	Herb	Malvaceae
291	<i>Sida cordata</i> (Burm. f.) Borssum	Herb	Malvaceae
292	<i>Sida cordifolia</i> L.	Herb	Malvaceae
293	<i>Sida rhombifolia</i> L. var. <i>rhombifolia</i>	Herb	Malvaceae
294	<i>Solanum pubescens</i> Willd.	Shrub	Solanaceae
295	<i>Solanum torvum</i> Sw.	Shrub	Solanaceae
296	<i>Solanum violaceum</i> Ortega Subsp. <i>Violaceum</i>	Shrub	Solanaceae
297	<i>Spermacoce hispida</i> L.	Herb	Rubiaceae
298	<i>Spermacoce ocymoides</i> Burm.f. var. <i>ocymoides</i>	Herb	Rubiaceae
299	<i>Spondias pinnata</i> (L.f.) Kurz	Tree	Anacardiaceae
300	<i>Sporobolus indicus</i> (L.) R. Br	Herb	Poaceae
301	<i>Stachytarpheta jamaicensis</i> (L.) Vahl	Shrub	Verbenaceae
302	<i>Sterculia foetida</i> L.	Tree	Sterculiaceae
303	<i>Streblus asper</i> Lour.	Tree	Moraceae
304	<i>Strobilanthes consanguineus</i> (Nees) T. Anders.	Shrub	Acanthaceae
305	<i>Strychnos nux-vomica</i> L.	Tree	Loganiaceae
306	<i>Strychnos potatorum</i> L.	Tree	Loganiaceae
307	<i>Synedrella nodiflora</i> (L.) Gaertn.	Herb	Asteraceae
308	<i>Syzygium cumini</i> (L.) Skeels	Tree	Myrtaceae
309	<i>Tamarindus indica</i> L.	Tree	Caesalpiniaceae
310	<i>Tarenna asiatica</i> (L.) Kuntze ex K. Schum. var. <i>asiatica</i>	Shrub	Rubiaceae
311	<i>Tephrosia maxima</i> Pres.	Herb	Fabaceae

312	<i>Tephrosia purpurea</i> (L.) Pers.	Shrub	Fabaceae
313	<i>Terminalia arjuna</i> (Roxb. ex DC.) Wight & Arn.	Tree	Combretaceae
314	<i>Terminalia bellirica</i> (Gaertn.) Roxb.	Tree	Combretaceae
315	<i>Themeda triandra</i> Forssk.	Herb	Poaceae
316	<i>Thunbergia alata</i> Boj. ex Sims	Climber	Acanthaceae
317	<i>Thunbergia fragrans</i> Roxb.	Climber	Acanthaceae
318	<i>Tinospora cordifolia</i> (Willd.) Miers ex Hook. f. & Thoms.	Climber	Menispermaceae
319	<i>Toddalia asiatica</i> (L.) Lam.	Shrub	Rutaceae
320	<i>Trianthema portulacastrum</i> L.	Herb	Aizoaceae
321	<i>Tribulus terrestris</i> L.	Herb	Zygophyllaceae
322	<i>Tridax procumbens</i> L.	Herb	Asteraceae
323	<i>Triumfetta pentandra</i> A. Rich	Herb	Tiliaceae
324	<i>Tylophora indica</i> (Burm.f.) Merr.	Climber	Asclepiadaceae
325	<i>Ventilago madraspatana</i> Gaertn.	Shrub	Rhamnaceae
326	<i>Vernonia cinerea</i> (L.) Less.	Herb	Asteraceae
327	<i>Vitex altissima</i> L.f.	Tree	Verbenaceae
328	<i>Wattakaka volubilis</i> (L.f.) Stapf	Climber	Asclepiadaceae
329	<i>Wrightia tinctoria</i> (Roxb.) R.Br. var. <i>tinctoria</i>	Tree	Apocynaceae
330	<i>Ziziphus mauritiana</i> Lam. var. <i>mauritiana</i>	Tree	Rhamnaceae
331	<i>Ziziphus oenoplia</i> (L.) Mill.	Tree	Rhamnaceae
332	<i>Ziziphus rugosa</i> Lam.	Tree	Rhamnaceae

Table 2: Endemic and threatened plant species recorded in the study area

S.No	Plant species	Endemic plants	Threatened plants (IUCN 2018.2)
1	<i>Argyrea cuneata</i>	Endemic to Peninsular India	-
2	<i>Bridelia crenulata</i>	Endemic to Peninsular India	-
3	<i>Capparis zeylanica</i>	Endemic to Peninsular India	-
4	<i>Clausena dentata</i>	Endemic to Peninsular India	-
5	<i>Hardwickia binata</i>	Endemic to Peninsular India	-
6	<i>Jasminum angustifolium</i>	Endemic to Peninsular India	-
7	<i>Ligustrum perrottetii</i>	Endemic to Peninsular India	-
8	<i>Mangifera indica</i>	-	Data Deficient
9	<i>Ocimum tenuiflorum</i>	Endemic to Peninsular India	-
10	<i>Ventilago madraspatana</i>	Endemic to Peninsular India	-
11	<i>Psydrax dicoccos</i>	-	Vulnerable
12	<i>Pterocarpus marsupium</i>	-	Near threatened
13	<i>Santalum album</i>	-	Vulnerable
14	<i>Vitex altissima</i>	Endemic to Peninsular India	-

5. Conclusion

Due to the large area, Kallar corridor gives shelter for huge number of plants and animal species. Now a days plant species are decreasing in their number and they are coming under the category of Threatened species because of anthropogenic impacts. From this study it can be concluded that regeneration of plant community is adversely affected. Mostly animals are depends on plants for their diet, plants has to be protected at any cost otherwise animals would have got extinct.

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