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Diversity Assessment of Woody Plants of Megamalai Wildlife Sanctuary, Theni District, Tamilnadu

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ABSTRACT: The present study was carried out for documentation of woody plants of Megamalai Wildlife Sanctuary in the southern Western Ghats of Theni district, Tamil Nadu. A total of 486 woody plant species, of which 283 trees, 191 shrubs and 12 lianas, belongs to 237 genera and 76 families respectively were recorded duirng the September 2012 to December 2015. The most dominant families are Rubiaceae (48 species), Fabaceae (33 species), Lauraceae (27 species) and they have contributed higher number of species followed by Euphorbiaceae, Moraceae and Malvaceae (21 species each). At the generic level *Ficus* (16 species) and *Litsea* (14 species) are dominated and followed by *Syzygium*, *Diospyros*, *Grewia* (10 each). Out of 486 woody taxa, 8 species are confined only to this Wildlife Sanctuary; *Nothopegia vajravelui, Sonerila parameswaranii, Ardisia blatteri, schefflera maduraiensis, Ixora monticola, Anisochilus henryi, Elaeocarpus gaussenii,* and *Drypetes porteri.* Among 486 woody plant species, about 41 species are in the IUCN threat status. *Elaeocarpus gaussenii, Ixora johnsonii* and *Syzygium travancoricum* are in Critically Endangered category (CR), 15 species of this list are under Endangered category (EN) and 12 spcies in Vulnarable category (VU). The study impressed that this area is more relevent to the conservation of local flora.

Key words: Woody taxa, Megamalai Wildlife Sanctuary, Diversity, Threat status, Endangered species, Conservation.

INTRODUCTION

The Western Ghats is a chain of mountain ranges from the hills south of Tapati river in the north to Kanyakumari along the west coast of India covering the states of Goa, Maharashtra, Karnataka, Tamil Nadu and Kerala with approximately 1500 km of narrow running stretch (Nayar 1996). The climatic and altitudinal gradient has resulted in a variety of vegetation types, from evergreen to semi-evergreen and from moist deciduous to dry deciduous compositions. In the higher elevations stunted montane communities have also developed.

Four major forest types and 23 different forest subtypes have been recognized in Western Ghats based on ecological factors and floristic composition (Pascasl 1982, 1988; Ramesh *et al.* 1997). It is one of the hottest hot spot in the world (Myers *et al.* 2000). The area is known for their unique high range of endemic floral diversity. Tree species are dominating the endemism about 63% moreover southern Western Ghats represented 1051 endemic species (Ramesh & Pascal 1991; Viswanathan 1999; Richard & Muthukumar 2012). Southern Western Ghat ranges consist of Agasthiyamalai, Travancore, Mahendragiri, Kalakadu Mundanthurai, Courtallum, Sivagiri,

Rajapalyam hills, Anamalai, Palni hills, Nilgiri, Wynaad and Caradamom hill ranges. These forest areas have covered different type of forest vegetation such as dry deciduous forest, moist deciduous forest, wet evergreen forest, sholas, savannas, scrub, and montane forests. The forest types of Western Ghats have been classified and described its uniquness by various authors (Champion & Seth 1968; Pascasl 1988; Ramesh *et al.* 1997).

The Western Ghats is one of the major tropical evergreen-forested regions in India and it has possessed unique plant diversity. The richness of floristic diversity of the region has already been brought out by many pioneered workers (Gamble 1915-1936; Fyson 1932; Nair & Daniel 1986; Rao 1994; Nayar 1996). Floristic diversity of southern Western Ghats also accounted by several botanists (Manilal 1988; Matthew 1981-1984 and 1999; Mohanan & Henry 1994; Nayar 1996; Ramachandran & Nair 1988) and also highlighted the diversity and richness of the flora of the region. About 2100 endemic flowering plants have been reported from out of 5800 flowering plant species in this mega endemic area (Rao 1994; Nair & Henry 1983; Nayar 1996) from which 1215 taxa are arborescent. This constitutes approximately 27% of the total Indian flora. Agasthyamalai regions alone constituted about 2000 species; the Nilgiris support *ca* 2611 species while Silent valley have approximately 1300 plant species. Most of the District floras form Western Ghat areas published in recent years reveals that more than 1200 tree species estimated for Western Ghat regions (Rao & Razi 1981; Manilal 1988; Ramachandran & Nair 1988; Chandrabose *et al*. 1988; Mohanan & Henry 1994; Mohanan & Sivadasan 2002; Ramaswamy *et al.* 2001). Presence of about 60 endemic genera including 49 monotypic genera makes this region floristically unique and significant (Sheeba & Narasimhan 2011). The woody plant diversity and ecology of Western Gahts have been accounted many workers (Pascal & Pelissier 1996; Parthasarthy 1999; Ramesh *et al*. 2007; Richard & Muthukumar 2012).

The Meghamalai Wildlife Sanctuary (MWLS) is situated in the southern Western Ghats of Theni district, Tamil Nadu. It is adjoining hill range of Periyar Tiger Reserve, Idukki district of Kerala and Grizzled Squirrel Sanctuary of Srivilliputhur, Tamil Nadu. The hill ranges have been botanized by several pioneered botanists since 1900s.

Many botanists have described several new taxa of orchids and Angiosperms from the mountain region (Blatter & Hallberg 1917; Rajasekaran 1986). About 5 new woody taxa namely *Chinonanthus ramiflora* ssp. *peninsularis*, *Syzygium sriganesanii, S. zeylanicum* var. *megamalayanum*, *Nothopegia vajravelui*, *Schefflera maduraiensis* described from the range (Ravikumar & Lakshmanan 1999). The present study was aimed to carry out the documentation of woody plant diversity in Meghamalai WLS, Southern Western Ghats of Tamil Nadu.

MATERIALS AND METHODS

A. Study area

Megamalai hills or High Wavy mountains is adjoined by Palni hills in the north, Sethur and Sivagiri hills in the south, Thekkadi hiils (Periyar Tiger Reserve) in the southeast, Cardamom hills and Kerala state in the west and a spur of Varushanadu ranges towards northeast. It is lies between 9° 35' to 9° 45' N latitude and 77° 15' to 77° 27' E longitude cover an area of 653 sq.km. It is a part of the Western Ghat biodiversity hot spot. This hill range forms main catchment of some important perennial rivers of South India such as Vaigai, Vaipar and Suruliar. The hill range is mostly surrounded by several tea, coffee, and cardamom estates with the patch of dense forest cover. The altitude ranged from foot hill to the highest Brooke peaks about 600 to 2000 M, inhabiting forest types ranging from scrub jungle to evergreen, montane forests and sholas surrounded by grasslands.

B. Data collection

The study area has been thoroughly explored for collection of woody taxa with frequent field visits from September 2012 to December 2015 covering all the seasons. The plant specimens which have been dentatively identified in the field, have been critically studied and identified by using local and regional floras (Beddome 1868-1874; Gamble & Fischer 1915-1936; Gopalan & Henry 2000; Ramesh *et al.* 2007), besides many other recent monographs and revisions. The identities of the plants were confirmed by comparision with authentic specimens deposited in Madras Herbarium (MH), Botanical Survey of India, Southern Circle, Coimbatore. The voucher specimens were deposited in the Madura college herbarium, Madurai.

An updated and correct nomenclature checked with authentic websites (www.plantlist.org) and also checked the threat status of woody species from IUCN (iucn.org). The comprehensive list of woody plant taxa are tabulated with updated botanical names in alphabetical order, family name, habit type, IUCN threat status and voucher number.

RESULT AND DISCUSSION

Intensive and extensive botanical explorations conducted in all seasons covering various forest types of Megamalai WLS have resulted a total of 486 woody Angiosperms taxa belongs to 237 genera and 76 families respectively (Table 1). Among the woody taxa, trees are representing highest in number 283 species followed by shrubs (191 species) and lianas (12 species) respectively. The dominant plant families in the study area are Rubiaceae (48 species) followed by fabaceae (27 species) and Euphorbiaceae, Moraceae, Malvaceae represented 21 species each. The most dominant genera includes *Ficus* (16 species) and *Litsea* (14 species) followed by *Syzygium*, *Diospyros*, *Grewia* having 10 species each.

Table 1: Woody plants of Megamalai Wildlife Sanctuary (T: Tree, S: Shrub, L: Liana, NA: Not Assessed, EN: Endangered, CR: Critically Endangered, VU: Vulnerable, DD: Data Defecient, LC: Least Concern, LR: Low Risk, NE: Not Evaluated, NT: Near Threatened, CD: Conservation Dependent.).

S. No	Binomial	Family	Habit	IUCN category	Voucher No.
1.	*Acacia catechu* (L.f.) Willd.	Fabaceae	T	NE	SK1121
2.	*Acacia chundra* (Roxb. ex Rottler) Willd.	Fabaceae	T	NE	SK1106
3.	*Acacia horrida* (L.) Willd.	Fabaceae	T	NE	SK1171
4.	*Acacia leucophloea* (Roxb.) Willd.	Fabaceae	T	NE	SK1177
5.	*Acacia pennata* (L.) Willd.	Fabaceae	T	NE	SK &VR1169
6.	*Acacia torta* (Roxb.) Crib.	Fabaceae	T	NE	SK1118
7.	*Acrocarpus fraxinifolius* Wight	Fabaceae	T	NE	SK1101
8.	*Acronychia pedunculata* L. (Miq.)	Rutaceae	T	NE	SK&VR1132
9.	*Actinodaphne bourdillonii* Gamble	Lauraceae	T	NE	SK1158
10.	*Actinodaphne lawsonii* Gamble	Lauraceae	T	NE	SK1165
11.	*Actinodaphne madraspatana* Bedd. ex Hook.f.	Lauraceae	T	NE	SK&VR1113
12.	*Actinodaphne wightiana* (Kuntze) Noltie	Lauraceae	T	NE	SK & VR1111
13.	*Aegle marmelos* Corr.	Rutaceae	T	NE	SK1147
14.	*Aglaia elaeagnoidea* (A.Juss) Benth.	Meliaceae	T	NE	SK&VR1124
15.	*Agrostistachys indica* Dalz.	Euphorbiaceae	T	NE	SK&VR1186
16.	*Aidia gardneri* (Thw.) Tiruveng.	Rubiaceae	S	NE	SK1135
17.	*Alangium salviifolium* (L.f.) Wangerin	Alangiaceae	T	NE	SK1151
18.	*Albizia lathamii* Hole.	Fabaceae	T	NE	SK&VR1141
19.	*Allophylus cobbe* (L.) Raeusch.	Sapindaceae	S	NE	SK&VR 1102
20.	*Allophylus serratus* (Hiern) Kurz	Sapindaceae	S	NE	SK&VR 1156
21.	*Allophylus subfalcatus* var. *distachys* (D.C.) S.Mukh.	Sapindaceae	S	NE	SK&VR 1127
22.	*Alphonsea sclerocarpa* Thw.	Annonaceae	S	NE	SK&VR 1162
23.	*Alseodaphne semecarpifolia* Nees	Lauraceae	T	NE	SK&VR 1108
24.	*Alstonia scholaris* (L.) R.Br.	Apocynaceae	T	LR/LC (1998)	SK 1115
25.	*Alstonia venenata* R.Br.	Apocynaceae	S	NE	SK&VR 1138
26.	*Anamirta cocculus* Wight and Arn.	Menispermaceae	L	NE	SK&VR 1148
27.	*Ancistrocladus heyneanus* Wall. ex Graham	Ancistrocladaceae	T	NE	SK&VR 1198
28.	*Anisochillus robustus* Hook.f.	Lamiaceae	S	NE	SK&VR 1179

S. No	Binomial	Family	Habit	IUCN category	Voucher No.
29.	*Anogeissus latifolia* (Roxb. ex DC.) Wall. ex Bedd.	Combretaceae	T	NE	SK 1117
30.	*Antiaris toxicaria* Lesch.	Moraceae	T	NE	SK&VR 1192
31.	*Antidesma acidum* Retz.	Phyllanthaceae	T	NE	SK&VR 1144
32.	*Antidesma alexitaria* L.	Phyllanthaceae	T	NE	SK0904
33.	*Antidesma ghasembilla* Gaertn.	Phyllanthaceae	S	NE	SK 0956
34.	*Antidesma montanum* Blume	Phyllanthaceae	T	NE	SK 0667
35.	*Aphanamixis polystachya* (Wall.) R.Parker	Meliaceae	T	LR./LC (1998)	SK 1103
36.	*Apodytes dimidiata* E.Mayer ex. Arn.	Icacinaceae	T	NE	SK 0727
37.	*Ardisia blatteri* Gamble	Primulaceae	S	EN (1998)	SK 0801
38.	*Ardisia pauciflora* Heyne ex Roxb.	Primulaceae	S	NE	SK 0826
39.	*Artocarpus heterophyllus* Lam.	Moraceae	T	NE	SK 0701
40.	*Artocarpus hirsutus* Lam.	Moraceae	T	NE	SK 0630
41.	*Atalantia monophylla* Corr.	Rutaceae	S	NE	SK 0929
42.	*Atalantia racemosa* Wight and Arn.	Rutaceae	S	NE	SK&VR 1114
43.	*Atalantia wightii* Tan.	Rutaceae	S	NE	SK 0781
44.	*Azima tetracantha* Lam.	Salvadoraceae	S	NE	SK 0746
45.	*Bauhinia racemosa* Lam.	Fabaceae	T	NE	SK 0803
46.	*Benkara malabarica* Lam.	Rubiaceae	S	NE	SK 0900
47.	*Bhesa indica* (Bedd.) Ding Hou	Celastraceae	T	NE	SK 0673
48.	*Bischofia javanica* Blume	Euphorbiaceae	T	NE	SK 0640
49.	*Blachia andamanica* ssp. *denudata* (Benth.) N.P.Balakr. & Chakrab.	Euphorbiaceae	S	NE	SK 0905
50.	*Blachia calycina* Benth.	Euphorbiaceae	S	NE	SK0919
51.	*Blachia umbellata* Baill.	Euphorbiaceae	S	NE	SK0939
52.	*Boehmaria glomerulifera* Miq.	Urticaceae	S	NE	SK&VR 1200
53.	*Boehmaria macrophylla* Hornem.	Urticaceae	S	NE	SK&VR 1176
54.	*Breynia saksenana* (Manilal *et al.*,) Chakrab. & N.P. Balakr.,	Phyllanthaceae	S	NE	SK 0601
55.	*Brugmansia suaveolans* (Humb. & Bonpl. ex Willd.) Bercht. & C. Presl	Solanaceae	S	NE	SK 0854
56.	*Buchnania axillaris* (Desr.) Ramam.	Anacardiaceae	T	NE	SK 0763
57.	*Buchnania lanzan* Spreng.	Anacardiaceae	T	NE	SK 0901
58.	*Buddleja asiatica* Lour.	Scrophulariaceae	S	NE	SK 0975
59.	*Butea monosperma* (Lam.) Taub.	Fabaceae	T	NE	1161
60.	*Cadaba fruticosa* (L.) Druce	Capparidaceae	S	NE	SK 0723
61.	*Cadaba trifoliata* Wight and Arn.	Capparidaceae	S	NE	SK 0602
62.	*Callicarpa tomentosa* (L.) Murr.	Verbenaceae	S	NE	SK 0638
63.	*Calophyllum inophyllum* L.	Calophyllaceae	T	LR/LC (1998)	SK 0973
64.	*Canarium strictum* Roxb.	Burseraceae	T	NE	SK 0788
65.	*Cansjera rheedii* Gmel.	Opiliaceae	S	NE	SK 0627
66.	*Canthium coromandelicum* (Burm.f.) Alston	Rubiaceae	S	NE	SK 0687
67.	*Canthium ficiforme* Hook.f.	Rubiaceae	T	EN (1998)	SK 0983
68.	*Canthium neilgherrense* Wight	Rubiaceae	T	NE	SK 0739
69.	*Canthium rheedii* DC.	Rubiaceae	S	NE	1104

S. No	Binomial	Family	Habit	IUCN category	Voucher No.
70.	*Canthium travancoricum* (Bedd.) Hook.f.	Rubiaceae	S	NE	SK 0629
71.	*Capparis aphylla* Roth	Capparidaceae	S	NE	SK 0835
72.	*Capparis divaricata* Hook.f. and Thomson	Capparidaceae	S	NE	SK 0804
73.	*Capparis sepiaria* L.	Capparidaceae	S	NE	SK 0777
74.	*Capparis zeylanica* L.	Capparidaceae	S	NE	SK 0913
75.	*Careya arborea* Roxb.	Lecythidaceae	T	NE	SK 0961
76.	*Carissa carandas* L.	Apocynaceae	S	NE	SK&VR 1172
77.	*Carmona retusa* (Vahl) Masam.	Cordiaceae	S	NE	SK 0813
78.	*Casearia ovata* (Lam.) Willd.	Salicaceae	T	NE	SK 0934
79.	*Casearia rubescens* Dalz.	Salicaceae	T	NE	SK 0959
80.	*Casearia tomentosa* Roxb.	Salicaceae	T	NE	SK 0988
81.	*Cassine albens* (Retz.) Kosterm.	Celastraceae	T	NE	SK 0757
82.	*Cassine glauca* (Rottb.) Kuntze	Celastraceae	T	NE	SK 0651
83.	*Cassine paniculata* (Wight & Arn.) Lobr.-Callen	Celastraceae	T	NE	SK 0902
84.	*Catunaregam spinosa* (Tunb.) Tiruveng.	Rubiaceae	S	NE	SK 0926
85.	*Celtis philippensis* Blanco.	Cannabaceae	T	NE	SK 0878
86.	*Celtis sps.*	Cannabaceae	S	NE	SK 0702
87.	*Celtis timorensis* Span.	Cannabaceae	T	NE	SK 0737
88.	*Cetltis tetrandra* Roxb.	Cannabaceae	T	NE	SK 0906
89.	*Chionanthus mala-elengi* (Dennst.) P.S. Green	Oleaceae	T	NE	SK 0618
90.	*Chionanthus ramiflorus* Roxb.	Oleaceae	T	NE	SK 0606
91.	*Chionanthus zeylanica* L.	Oleaceae	T	NE	SK 0893
92.	*Chloroxylon swietenia* DC.	Rutaceae	T	VU (1998)	1173
93.	*Chukrasia tabularis* A.Juss.	Meliaceae	T	LR/LC (1998)	SK 0827
94.	*Cinnamomum cassia* (L.) J.Presl	Lauraceae	T	NE	SK 0634
95.	*Cinnamomum sulphuratum* Nees	Lauraceae	T	NE	SK 0943
96.	*Cinnamomum verum* Berchthold & J.Presl	Lauraceae	T	NE	SK 0705
97.	*Cinnamomum wightii* Meissn.	Lauraceae	T	NE	SK 0752
98.	*Cipadessa baccifera* Miq.	Meliaceae	S	NE	SK 0848
99.	*Cissus vitiginea* L.	Vitaceae	L	NE	SK 0623
100.	*Clausena dentata* (Willd.) M.Roem.	Rutaceae	S	NE	SK 0657
101.	*Clausena indica* Oliv.	Rutaceae	S	NE	SK 0831
102.	*Cleidion javanicum* Blume	Euphorbiaceae	T	NE	SK 0863
103.	*Cleistanthus collinus* Benth.	Phyllanthaceae	T	VU (1998)	SK 0806
104.	*Clerodendrum infortunatum* L.	Lamiaceae	S	NE	SK 0962
105.	*Clerodendrum phlomidis* L.f.	Lamiaceae	S	NE	SK 1105
106.	*Cocculus hirsutus* (L.) W.Theob	Menispermaceae	L	NE	SK 1131
107.	*Cocculus laurifolius* DC.	Menispermaceae	L	NE	SK 0924
108.	*Cochlospermum religiosum* (L.) Alston	Malvaceae	T	NE	SK 0974
109.	*Combretum albidum* G.Don	Combretaceae	L	NE	SK 0946
110.	*Commiphora berryi* Engl.	Burseraceae	S	NE	SK 0810
111.	*Commiphora caudata* Engl.	Burseraceae	T	NE	SK &VR 0876
112.	*Commiphora caudata* Var. *Pubescens* (Wight. & Arn.) K.M. Mathew	Burseraceae	T	NE	SK&VR 0603
113.	*Connarus sclerocarpus* (Wight & Arn.)Schell.	Connaraceae	T	NE	SK 0731

S. No	Binomial	Family	Habit	IUCN category	Voucher No.
114.	*Cordia domestica* Roth.	Cordiaceae	T	NE	SK&VR 0783
115.	*Cordia sinensis* Lam.	Cordiaceae	S	Nee	SK 0862
116.	*Crateva adansonii* DC.	Capparidaceae	T	NE	SK 0605
117.	*Crotalaria beddomeana* Thoth. & Ansari	Fabaceae	S	NE	SK&VR 0683
118.	*Croton aromaticus* L.	Euphorbiaceae	S	NE	SK 0611
119.	*Croton caudatus* Geiseler	Euphorbiaceae	S	Ne	SK 0912
120.	*Cryptocarya beddomei* Gamble	Lauraceae	T	VU (1998)	SK&VR1163
121.	*Cullenia exarillata* Robyns	Malvaceae	T	NE	SK 0849
122.	*Dalbergia coromandeliana* Prain	Fabaceae	T	NE	SK 0644
123.	*Dalbergia horrida* (Dennst.) Mabb.	Fabaceae	S	NE	SK&VR 0987
124.	*Dalbergia lanceolaria* ssp. *lanceolaria* L.f.	Fabaceae	T	NE	SK 0703
125.	*Dalbergia lanceolaria* ssp. *paniculata* (Roxb.) Thoth.	Fabaceae	T	NE	SK 0631
126.	*Dalbergia latifolia* Roxb.	Fabaceae	T	VU (1998)	SK 0604
127.	*Dalbergia pinnata* (Lour.) Prain	Fabaceae	T	NE	SK 0805
128.	*Dalbergia sissoo* DC.	Fabaceae	T	NE	SK 0842
129.	*Daphniphyllum neilgherrense* (Wight) K.Rosenthal	Daphniphyllaceae	T	NE	SK&VR 0910
130.	*Debregeasia longifolia* (Burm.f.) Wedd.	Urticaceae	T	NE	SK 0616
131.	*Dendrocnide sinuata* (Blume) Chew.	Urticaceae	T	NE	SK 0822
132.	*Derris benthamii* Thw.	Fabaceae	S	NE	SK&VR 1129
133.	*Derris bervipes* (Benth.) Baker	Fabaceae	S	NE	SK 1199
134.	*Derris scandens* Benth.	Fabaceae	S	NE	SK 0908
135.	*Derris trifoliata* Lour.	Fabaceae	S	NE	SK 0632
136.	*Dichrostachys cinerea* (L.)Wight & Arn.	Fabaceae	S	LC (2009)	SK 0829
137.	*Dimorphocalyx glabellus* Thw.	Euphorbiaceae	S	NE	SK&VR 0868
138.	*Diospyros barberi* Ramas.	Ebenaceae	T	VU (1998)	SK 0720
139.	*Diospyros buxifolia* (Bl.) Hiern.	Ebenaceae	T	NE	SK 0795
140.	*Diospyros foliolosa* Wall. ex A.DC.	Ebenaceae	T	NE	SK&VR 0907
141.	*Diospyros melanoxylon* Roxb.	Ebenaceae	T	NE	SK&VR 0680
142.	*Diospyros montana* Roxb.	Ebenaceae	T	NE	SK 0656
143.	*Diospyros neilgerrensis* (Wight) Kosterm.	Ebenaceae	T	NE	SK 0607
144.	*Diospyros nilagirica* Bedd.	Ebenaceae	T	NE	SK 0976
145.	*Diospyros ovalifolia* Wight	Ebenaceae	T	NE	SK 0807
146.	*Diospyros sylvatica* Roxb.	Ebenaceae	T	NE	SK&VR 1107
147.	*Diospyros vera* (Lour.) A. Chev.	Ebenaceae	T	NE	SK 1137
148.	*Diploclisia glaucescens* Diels	Menispermaceae	L	NE	SK 0734
149.	*Dipterocarpus bourdillonii* Brandis	Dipterocarpaceae	T	NE	SK 0815
150.	*Dipterocarpus indicus* Bedd.	Dipterocarpaceae	T	EN (1998)	SK 0856
151.	*Discopermum apiocarpum* Dalz. ex Hook.f.	Rubiaceae	T	NE	SK 0610
152.	*Discopermum sphaeocarpum* Dalz. ex Hook. f.	Rubiaceae	T	NE	SK 0930
153.	*Dodonaea viscosa* ssp. *angustifolia* (L.f.) J.G.West	Sapindaceae	S	NE	SK 0775
154.	*Drypetes porteri* (Gamble) Pax & Haffm.	Putranjivaceae	T	EN (1998)	SK 0920

S. No	Binomial	Family	Habit	IUCN category	Voucher No.
155.	*Drypetes sepiaria* (Wight & Arn.) Pax. & K.Hoffm	Putranjivaceae	T	NE	SK 0691
156.	*Ehretia laevis* Roxb.	Cordiaceae	S	NE	SK&VR 1109
157.	*Elaeocarpus gaussenii* Weibel	Elaeocarpaceae	T	CR (1998)	SK 0748
158.	*Elaeocarpus munroii* Mast.	Elaeocarpaceae	T	NE	SK 0749
159.	*Elaeocarpus serratus* L.	Elaeocarpaceae	T	NE	SK 0764
160.	*Elaeocarpus tuberculatus* Roxb.	Elaeocarpaceae	T	NE	SK 0754
161.	*Elaeocarpus variabilis* Zmarzty	Elaeocarpaceae	T	NE	SK&VR 0952
162.	*Embelia basaal* A.DC.	Primulaceae	L	NE	SK 0812
163.	*Embelia ribes* Burm.f.	Primulaceae	L	NE	SK 0834
164.	*Entada rheedii* Spreng.	Fabaceae	L	NE	SK 0652
165.	*Epiprinus mallotiformis* (Muell.-Arg.) Croizat	Euphorbiaceae	T	NE	SK 0758
166.	*Eriolaena hookeriana* Wight and Arn.	Malvaceae	T	NE	SK 0708
167.	*Eriolaena quinquelocularis* Wight	Malvaceae	T	NE	SK 0845
168.	*Erythrina crista-galli* L.	Fabaceae	T	NE	SK&VR 0935
169.	*Erythrina subumbrans* (Hassk.) Merr.	Fabaceae	T	NE	SK&VR 0866
170.	*Erythrina variegata* L.	Fabaceae	T	LC (2010)	SK 0624
171.	*Erythroxylum lanceolatum* Wight (Walp.)	Erythroxylaceae	T	NE	SK 0747
172.	*Erythroxylum monogynum* Roxb.	Erythroxylaceae	S	NE	SK&VR 1146
173.	*Erythroxylum moonii* Hochr.	Erythroxylaceae	T	NE	SK 0675
174.	*Eugenia mooniana* Wight	Myrtaceae	S	NE	SK 0840
175.	*Eugenia rottleriana* Wight & Arn.	Myrtaceae	T	VU (1998)	SK 0841
176.	*Eugenia* roxburghii DC.	Myrtaceae	T	NE	SK 0839
177.	*Eugenia* sp.	Myrtaceae	S	NE	SK 0838
178.	*Euonymus indicus* Heyne ex Roxb.	Celastraceae	S	NE	SK 0698
179.	*Euphorbia trigona* Mill.	Euphorbiaceae	S	NE	SK 0621
180.	*Eurya nitida* Korth.	Pentaphylaceae	T	NE	SK&VR 0832
181.	*Excoecaria oppositifolia* var. *crenulata* (Wight) Charakab. & Gangop.	Euphorbiaceae	T	NE	SK&VR 0874
182.	*Fagrea ceilanica* Thunb.	Gentianaceae	S	NE	SK 0643
183.	*Ficus amplissima* Smith	Moraceae	T	NE	SK 0712
184.	*Ficus arnottiana* Miq.	Moraceae	T	NE	SK&VR 1142
185.	*Ficus callosa* Willd.	Moraceae	T	NE	SK&VR 0944
186.	*Ficus dalhousiae* Miq.	Moraceae	T	NE	SK&VR 0808
187.	*Ficus drupaceae* Thunb.	Moraceae	T	NE	SK 0715
188.	*Ficus exasperata* Vahl.	Moraceae	T	NE	SK 0794
189.	*Ficus hispida* L.	Moraceae	T	NE	SK 0612
190.	*Ficus laevis* Var. *macrocarpa* (Miq.) Corner	Moraceae	T	NE	SK 0859
191.	*Ficus microcarpa* L.f.	Moraceae	T	NE	SK 0897
192.	*Ficus mollis* Vahl.	Moraceae	T	NE	SK 0820
193.	*Ficus nervosa* Heyne ex Roth	Moraceae	T	NE	SK 0921
194.	*Ficus racemosa* L.	Moraceae	T	NE	SK&VR 0984
195.	*Ficus talbotii* King.	Moraceae	T	NE	SK 0709
196.	*Ficus tinctoria* G.Forst.	Moraceae	T	NE	SK 0830
197.	*Ficus tsjahela* Burm.f.	Moraceae	T	NE	SK 0622
198.	*Ficus virens* Ait.	Moraceae	T	NE	SK 0661

S. No	Binomial	Family	Habit	IUCN category	Voucher No.
199.	*Filicium decipiens* (Wight and Arn.) Thw.	Sapindaceae	T	NE	SK 0937
200.	*Firmiana simplex* (L.) W. Wight.	Malvaceae	T	NE	SK&VR 1133
201.	*Flacourtia indica* (Burm.f.) Merr.	Salicaceae	T	NE	SK&VR 0821
202.	*Garcinia travancorica* Bedd.	Clusiaceae	T	VU (1998)	SK&VR 0846
203.	*Gardenia gummifera* L. f.	Rubiaceae	T	LR./LC (1998)	SK 0753
204.	*Gardenia resinifera* Roth.	Rubiaceae	T	NE	SK 0858
205.	*Garuga pinnata* Roxb.	Burseraceae	T	NE	SK 0614
206.	*Givotia moluccana* (L.) Sreem.	Euphorbiaceae	T	NE	SK&VR 1116
207.	*Glochidiion zeylanicum* (Gaertn.) A. Juss.	Phyllanthaceae	T	NE	SK&VR 0922
208.	*Glochidion ellipticum* Wight	Phyllanthaceae	T	NE	SK&VR 0941
209.	*Glochidion* heyneanum (Wight & Arn.) Wight	Phyllanthaceae	T	NE	SK&VR 0971
210.	*Glycosmis mauritiana* (Lam.) Tanaka	Rutaceae	S	NE	SK 0706
211.	*Glycosmis pentaphylla* Corr.	Rutaceae	S	NE	SK&VR 0857
212.	*Gmelina arborea* Roxb.	Lamiaceae	T	NE	SK&VR 0836
213.	*Gmelina asiatica* L.	Lamiaceae	S	NE	SK 0619
214.	*Gomphandra coriacea* Wight	Stemonuraceae	T	NE	SK 0653
215.	*Gomphandra tetrandra* (Wall.) Sleumer	Stemonuraceae	T	NE	SK 0677
216.	*Goniothalamus wightii* Hook.f. and Thomson	Annonaceae	S	NE	SK&VR 1110
217.	*Gordonia obtusa* Wall. ex Wight and Arn.	Theaceae	T	NE	SK&VR 0903
218.	*Grewia bracteata* Roth	Malvaceae	S	NE	SK&VR 0927
219.	*Grewia flavescens* Juss.	Malvaceae	S	NE	SK&VR 0960
220.	*Grewia hirsuta* Vahl.	Malvaceae	S	NE	SK 0729
221.	*Grewia multiflora* Juss.	Malvaceae	S	NE	SK&VR 0823
222.	*Grewia oppositifolia* Buch.-Ham. ex DC.	Malvaceae	S	NE	SK&VR 0853
223.	*Grewia orbiculata* Rottl.	Malvaceae	S	NE	SK0699
224.	*Grewia orientalis* Wight and Arn.	Malvaceae	S	NE	SK&VR 1189
225.	*Grewia tenax* (Forssk.) Fiori	Malvaceae	S	NE	SK&VR 0923
226.	*Grewia tilifolia* Vahl.	Malvaceae	T	NE	SK&VR 0800
227.	*Grewia villosa* Willd.	Malvaceae	S	NE	SK 0745
228.	*Gymnosporia emarginata* (Willd.) Thw.	Celastraceae	S	NE	SK 0608
229.	*Gymnosporia heyneana* (Roth.) Laws.	Celastraceae	S	NE	SK 0648
230.	*Gymnosporia montana* Benth.	Celastraceae	S	NE	SK 0824
231.	*Gyrocarpus americanus* Jacq.	Hernandiaceae	T	NE	SK 0861
232.	*Haldina cordifolia* (Roxb.) Ridsd.	Rubiaceae	T	NE	SK&VR 0911
233.	*Hedyotis pupurascense* Hook.f.	Rubiaceae	S	NE	SK&VR 1000
234.	*Hedyotis rajasekaranii* Karupp. et. Ravich.	Rubiaceae	S	NE	SK&VR 1402
235.	*Helicteres isora* L.	Malvaceae	S	NE	SK&VR 1143
236.	*Heynea trijuga* Roxb. ex Sm.	Meliaceae	T	NE	SK 0628
237.	*Hiptage benghalensis* (L.) Kurz.	Malphigiaceae	L	NE	SK 0666
238.	*Hopea parviflora* Bedd.	Dipterocarpaceae	T	EN (1998)	SK 0716
239.	*Hopea ponga* (Dennst.) Mabber.	Dipterocarpaceae	T	EN (1998)	SK 0798
240.	*Hugonia mystax* L.	Linaceae	S	NE	SK&VR 0864
241.	*Hydnocarpus alpina* Wight	Achariaceae	T	NE	SK&VR 0914
242.	*Hydnocarpus pentandrus* (Buch.-Ham.) Oken	Achariaceae	T	NE	SK&VR 0915

S. No	Binomial	Family	Habit	IUCN category	Voucher No.
243.	*Hymenodictyon orixense* (Roxb.) Mabber.	Rubiaceae	T	NE	SK&VR 0969
244.	*Ilex denticulata* Wall. ex Wight	Aquifoliaceae	S	NE	SK&VR 1126
245.	*Ilex wightiana* Wall. ex. Wight	Aquifoliaceae	T	NE	SK&VR 1154
246.	*Indigofera cassioides* Rottl. ex DC.	Fabaceae	S	NE	SK 0711
247.	*Isonandra montana* (Thw.) Gamble	Sapotaceae	T	NE	SK 0620
248.	*Isonandra perrottetiana* Wight	Sapotaceae	T	NE	SK 0664
249.	*Ixora alba* L.	Rubiaceae	S	NE	SK 0936
250.	*Ixora cuneifolia* Roxb. ex DC.	Rubiaceae	S	NE	SK 0819
251.	*Ixora johnsonii* Hook.f.	Rubiaceae	S	CR (1998)	SK 0865
252.	*Ixora monticola* Gamble	Rubiaceae	S	NE	SK&VR 1130
253.	*Ixora nigricans* R.Br. ex Wight and Arn.	Rubiaceae	S	NE	SK 0736
254.	*Ixora pavetta* Andrews	Rubiaceae	T	NE	SK 0615
255.	*Ixora saulierei* Gamble	Rubiaceae	S	EN (1998)	SK 0655
256.	*Justicia adhatoda* L.	Acanthaceae	S	NE	SK&VR 0925
257.	*Justicia santapaui* Bennet	Acanthaceae	S	NE	SK&VR 0809
258.	*Lagerstroemia speciosa* (L.) Pers.	Lythraceae	T	NE	SK&VR 0818
259.	*Lannea coromandelica* (Houtt.) Merr.	Anacardiaceae	T	NE	SK&VR 1128
260.	*Lantana camara* L.	Verbenaceae	S	NE	SK 0707
261.	*Lasianthus acuminatus* Wight	Rubiaceae	S	NE	SK 0625
262.	*Lasianthus cinereus* Gamble	Rubiaceae	S	NE	SK 0658
263.	*Lasianthus dichotomous* Wight	Rubiaceae	S	NE	SK 0957
264.	*Lasianthus parvifolius* Wight	Rubiaceae	S	NE	SK 0811
265.	*Lasianthus rostratus* Wight	Rubiaceae	S	VU (1998)	SK 0844
266.	*Leea indica* (Burm.f.) Merr.	Vitaceae	S	NE	SK 0869
267.	*Lepisanthes senegalensis* (Poir.) Leenh.	Sapindaceae	S	NE	SK&VR 0917
268.	*Lepisanthes tetraphylla* (Vahl.) Radlk.	Sapindaceae	S	NE	SK&VR 0955
269.	*Ligustrum perrottetti* A. DC. Ex DC.	Oleaceae	T	NE	SK&VR 0982
270.	*Limonia acidissima* Wight and Arn.	Rutaceae	T	NE	SK 0704
271.	*Litsea beddomei* Hook.f.	Lauraceae	T	EN (1998)	SK 0755
272.	*Litsea bourdillonii* Gamble	Lauraceae	T	NE	SK 0635
273.	*Litsea coriacea* Hook.f.	Lauraceae	T	NE	SK&VR 1120
274.	*Litsea deccanensis* Gamble	Lauraceae	T	NE	SK&VR 0814
275.	*Litsea floribunda* Gamble	Lauraceae	T	NE	SK&VR 0837
276.	*Litsea glabrata* Hook.f.	Lauraceae	T	NE	SK 0713
277.	*Litsea glutinosa* (Lour.) C.B. Rob.	Lauraceae	T	NE	SK 0639
278.	*Litsea oleoides* (Meissner) Hook.f.	Lauraceae	T	NE	SK&VR 1197
279.	*Litsea quinqueflora* (Dennst.) Suresh	Lauraceae	T	NE	SK&VR 1170
280.	*Litsea venulosa* (Meissner) Hook.f.	Lauraceae	T	NE	SK&VR 0928
281.	*Litsea wightiana* Hook.f.	Lauraceae	T	NE	SK&VR 0989
282.	*Loeseneriella bourdillonii* (Gamble) Ramam.	Celastraceae	S	NE	SK 0649
283.	*Loeseneriella obtusifolia* (Roxb.) A.C. Smith	Celastraceae	S	NE	SK&VR 0940
284.	*Macaranga indica* Wight	Euphorbiaceae	T	NE	SK&VR 0942
285.	*Macaranga peltata* (Roxb.) Muell.-Arg.	Euphorbiaceae	T	NE	SK&VR 1112
286.	*Madhuca longifolia* (J.Koenig ex L.) J.F. Macbr.	Sapotaceae	T	NE	SK&VR 1134

S. No	Binomial	Family	Habit	IUCN category	Voucher No.
287.	*Maerua apetala* (Spreng.) M. Jacobs	Capparidaceae	S	NE	SK 0609
288.	*Maerua oblongifolia* A. Rich.	Capparidaceae	S	NE	SK 0645
289.	*Maesa indica* (Roxb.) A. DC.	Primulaceae	S	NE	SK 0668
290.	*Maesa perrottettiana* A. DC	Primulaceae	S	NE	SK 0685
291.	*Magnolia champaca* (L.) Baill. ex Pierre	Magnoliaceae	T	NE	SK 0700
292.	*Magnolia nilagirica* (Zenk.) Figlar	Magnoliaceae	T	NE	SK 0613
293.	*Mallotus aureopunctatus* (Dalz.) M.Arg.	Euphorbiaceae	T	NE	SK 0710
294.	*Mallotus beddomei* Hook.f.	Euphorbiaceae	T	NE	SK&VR 1164
295.	*Mallotus philippensis* (Lam.) M.Arg.	Euphorbiaceae	T	NE	SK&VR 0909
296.	*Mallotus resinosus* (Blanco) Merr.	Euphorbiaceae	T	NE	SK&VR 0916
297.	*Mallotus tetracoccus* (Roxb.) Kurz.	Euphorbiaceae	T	NE	SK 0617
298.	*Manilkara hexandra* (Roxb.) Dub.	Sapotaceae	T	NE	SK 0816
299.	*Melicope lunu-ankenda* (Gaertn.) T.G.Hartly	Rutaceae	T	NE	SK&VR 0918
300.	*Meliosma pinnata* (Roxb.) Walp.	Sabiaceae	T	NE	SK&VR 0931
301.	*Meliosma simplicifolia* Walp.	Sabiaceae	T	NE	SK&VR 0992
302.	*Memecylon depressum* Benth. ex Triana	Melastomataceae	S	NE	SK&VR 1123
303.	*Memecylon edule* Roxb.	Melastomataceae	S	NE	SK&VR 1145
304.	*Memecylon flavescens* Gamble	Melastomataceae	S	EN (1998)	SK 0681
305.	*Memecylon grande* Retz.	Melastomataceae	S	VU (1998)	SK 0817
306.	*Memecylon lushingtonii* Gamble	Melastomataceae	S	NE	0899
307.	*Memecylon sphaerocarpum* DC.	Melastomataceae	S	NE	SK&VR 0932
308.	*Memecylon umbellatum* Burm.f.	Melastomataceae	S	NE	SK&VR 0945
309.	*Mesua ferrea* L.	Calophyllaceae	T	NE	SK&VR 0967
310.	*Microtropis latifolia* Wight ex M.Lawson	Celastraceae	T	NE	SK&VR 1119
311.	*Microtropis stocksii* Gamble	Celastraceae	T	NE	SK 0717
312.	*Microtropis wallichiana* Wight	Celastraceae	T	NE	SK 0725
313.	*Miliusa eriocarpa* Dunn.	Annonaceae	S	NE	SK 0626
314.	*Miliusa montana* Gardner ex Hook.f. and Thomson	Annonaceae	S	NE	SK&VR 0933
315.	*Mimusops elengi* L.	Sapotaceae	T	NE	SK&VR 0953
316.	*Mitragyna parvifolia* (Roxb.) Korth.	Rubiaceae	T	NE	SK&VR 1136
317.	*Mitrephora heyneana* (Hook.f. and Thomson) Thwaites	Annonaceae	S	NE	SK 0641
318.	*Monosis wightiana* DC.	Asteraceae	T	NE	SK 0799
319.	*Morinda pubescens* J.E. Smith	Rubiaceae	T	NE	SK 0761
320.	*Moringa concanensis* Nimmo	Moringaceae	T	NE	SK&VR 0954
321.	*Mundulea sericea* (Willd.) A.Chev.	Fabaceae	S	NE	SK&VR 1196
322.	*Munronia pinnata* (Wall.) Harms	Meliaceae	T	NE	SK&VR 1166
323.	*Murraya paniculata* (L.) Jacq.	Rutaceae	S	NE	SK&VR 1122
324.	*Myristica dactyloides* Gaertn.	Myristicaceae	T	LR/CD (1998)	SK&VR 0898
325.	*Myristica fragrens* Houtt.	Myristicaceae	T	DD (1998)	SK&VR 0888
326.	*Neolitsea fischeri* Gamble	Lauraceae	T	VU (1998)	SK 0662
327.	*Neolitsea scrobiculata* (Meisner) Gamble	Lauraceae	T	NE	SK 0718
328.	*Neolitsea zeylanica* Nees & T. Nees	Lauraceae	T	NE	SK&VR 0797
329.	*Nothapodytes nimmoniana* (Grah.) Mabber.	Icacinaceae	T	NE	SK&VR 0778

S. No	Binomial	Family	Habit	IUCN category	Voucher No.
330.	*Nothopegia beddomei* Gamble	Anacardiaceae	T	NE	SK&VR 0999
331.	*Nothopegia heyneana* (Hook.f.) Gamble	Anacardiaceae	T	LR/NT (1998)	SK&VR 0938
332.	*Nothopegia racemosa* (Dalzell) Ramamoorthy	Anacardiaceae	T	NE	SK&VR 1125
333.	*Nothopegia travancorica* Bedd.	Anacardiaceae	T	NE	SK&VR 1152
334.	*Nothopegia vajravelui* K.Ravik. and Laxman.	Anacardiaceae	T	NE	SK&VR 1155
335.	*Ochna lanceolata* Spreng.	Ochnaceae	S	NE	SK 0896
336.	*Ochna obtusata* DC.	Ochnaceae	S	NE	SK 0852
337.	*Olea dioica* Roxb.	Oleaceae	T	NE	SK 0733
338.	*Olea paniculata* R.Br.	Oleaceae	T	NE	SK 0642
339.	*Opilia amentacea* Roxb.	Opiliaceae	S	NE	SK&VR 0958
340.	*Oreocnide integrifolia* (Gaudich.) Miq.	Urticaceae	T	NE	SK&VR 0860
341.	*Pavetta breviflora* DC.	Rubiaceae	S	NE	SK&VR 1178
342.	*Pavetta indica* L.	Rubiaceae	S	NE	SK 0650
343.	*Pavetta oblanceolata* Brem.	Rubiaceae	S	NE	SK 0724
344.	*Pavetta tomentosa* Roxb. ex Sm.	Rubiaceae	S	NE	SK 0768
345.	*Pavetta zeylanica* (Hook.f.)Gamble	Rubiaceae	S	NE	SK 0796
346.	*Persea macrantha* (Nees) Kosterm.	Lauraceae	T	NE	SK&VR 0825
347.	*Phoebe paniculata* Nees	Lauraceae	T	NE	SK&VR 0843
348.	*Phoebe wightii* Meissn.	Lauraceae	T	NE	SK&VR 1139
349.	*Photinia integrifolia* Lindl.	Rosaceae	T	NE	SK&VR 1191
350.	*Phyllanthus chandrabosei* Govaerts & Radcl. – Sm.	Phyllanthaceae	S	NE	SK 0696
351.	*Phyllanthus polyphyllus* Willd.	Phyllanthaceae	S	NE	SK 0780
352.	*Pisonia aculeata* L.	Nyctaginaceae	T	NE	SK 0774
353.	*Pisonia grandis* R.Br.	Nyctaginaceae	T	NE	SK&VR 0855
354.	*Pittosporum napaulense* (DC.) Rehder & E.H. Wilson	Pittosporaceae	T	NE	SK&VR 0990
355.	*Pittosporum neelgherrense* Wight and Arn.	Pittosporaceae	T	NE	SK&VR 0998
356.	*Pleiospermium alatum* (Wall. ex Wight and Arn) Swingle	Rutaceae	S	NE	SK&VR 0972
357.	*Pleurostylia opposita* (Wall.) Alston.	Celastraceae	T	NE	SK&VR 1153
358.	*Polyalthia cerasoides* (Roxb.) Bedd.	Annonaceae	S	NE	SK&VR 0782
359.	*Polyalthia korintii* (Dunal) Hook.f. and Thomson	Annonaceae	S	NE	SK&VR 0793
360.	*Polyalthia suberosa* (Roxb.) Thwaites	Annonaceae	S	NE	SK&VR 0790
361.	*Polyscias acuminata* (Wight) Seem.	Araliaceae	S	NE	SK 0686
362.	*Premna coriacea* C.B. Clarke	Lamiaceae	T	NE	SK&VR 0997
363.	*Premna corymbosa* (Burm.f.) Rottl. & Willd.	Lamiaceae	S	NE	SK&VR 1190
364.	*Premna mollissima* Roth	Lamiaceae	T	NE	SK&VR 0851
365.	*Premna tomentosa* Willd.	Lamiaceae	S	NE	SK&VR 0833
366.	*Premna wightiana* Schauer	Lamiaceae	T	NE	SK 0679
367.	*Prosopis cineraria* (L.) Druce	Fabaceae	T	NE	SK 0663
368.	*Prosopis juliflora* (Sw.) DC.	Fabaceae	T	NE	SK&VR 0986
369.	*Prunus ceylanica* (Wight.) Miq.	Rosaceae	T	EN (1998)	SK 0792
370.	*Psychotria flavida* Talbot.	Rubiaceae	S	NE	SK 0760
371.	*Psychotria connata* Wall.	Rubiaceae	S	NE	SK&VR 0895
372.	*Psychotria fosbergii* Steyerm.	Rubiaceae	S	NE	SK 0654
373.	*Psychotria nigra* (Gaertn.) Alston	Rubiaceae	S	NE	SK 0695

S. No	Binomial	Family	Habit	IUCN category	Voucher No.
374.	*Psychotria nilgiriensis* Deb. and Gang.	Rubiaceae	S	NE	SK&VR 0985
375.	*Psychotria nudiflora* Wight and Arn.	Rubiaceae	S	NE	SK 0735
376.	*Psychotria subintegra* (Wt. & Arn.) Hook.f.	Rubiaceae	S	NE	SK 0742
377.	*Psychotria truncata* Wall.	Rubiaceae	S	NE	SK&VR 1140
378.	*Psydrax umbellata* (Wight) Bridson	Rubiaceae	S	NE	SK&VR 0875
379.	*Pterocarpus marsupium* Roxb.	Fabaceae	T	VU (1998)	SK&VR 0894
380.	*Pterospermum canescens* Roxb.	Malvaceae	T	NE	SK 0672
381.	*Pterospermum diversifolium* Blume	Malvaceae	T	NE	SK 0744
382.	*Putranjiva roxburghii* Wall.	Putranjivaceae	T	NE	SK&VR 0993
383.	*Radermachera xylocarpa* (Roxb.) Schum.	Bignoniaceae	T	NE	SK&VR 0947
384.	*Rapanea daphnoides* Mez.	Primulaceae	S	NE	SK&VR 1193
385.	*Rapanea wightiana* (Wall. ex DC.) Mez.	Primulaceae	S	NE	SK&VR 0828
386.	*Rauvolfia verticillata* Baill.	Apocynaceae	S	NE	SK 0787
387.	*Reissantia indica* (Willd.) Halle	Celastraceae	S	NE	SK 0791
388.	*Rhamnus wightii* Wight and Arn.	Rhamnaceae	T	NE	SK 0690
389.	*Rhododendron arboream* Smith	Ericaceae	S	NE	SK&VR 1167
390.	*Rhodomyrtus tomontosa* Wight	Myrtaceae	S	NE	SK&VR 1168
391.	*Rhus mysurensis* B.Heyne ex Wight & Arn.	Anacardiaceae	T	NE	SK&VR 0963
392.	*Rotheca serrata* (L.) Steane & Mabb.	Lamiaceae	S	NE	SK&VR 0867
393.	*Sageretia hamosa* (Wall.) Brongn.	Rhamnaceae	S	NE	SK 0773
394.	*Salacia chinensis* L.	Celastraceae	S	NE	SK 0765
395.	*Salvadora persica* L.	Salvadoraceae	S	NE	SK 0665
396.	*Sapindus emarginatus* Vahl.	Sapindaceae	T	NE	SK&VR 1194
397.	*Sapindus trifoliatus* L.	Sapindaceae	T	NE	SK&VR 0950
398.	*Saprosma foetens* (Wight) K. Schum.	Rubiaceae	T	NE	SK&VR 0948
399.	*Sauropus bacciformis* (L.) Airy shaw	Phyllanthaceae	S	NE	SK&VR 0847
400.	*Schefflera elliptica* (Blume) Harms	Araliaceae	S	NE	SK&VR 0786
401.	*Schefflera maduraiensis* Ravik. et Laxman.	Araliaceae	S	NE	SK 0646
402.	*Schefflera racemosa* (Wight) Harms	Araliaceae	T	NE	SK&VR 1195
403.	*Schefflera stellata* (Gaertn.) Harms	Araliaceae	S	NE	SK&VR 0981
404.	*Schefflera wallichiana* (Wight and Arn.) Harms	Araliaceae	S	NE	SK&VR 0970
405.	*Schleichera oleosa* (Lour.) Oken	Sapindaceae	T	NE	SK&VR 0996
406.	*Schrebera swietenioides* Roxb.	Oleaceae	S	NE	SK&VR 0886
407.	*Scolopia crenata* (Wight and Arn.) Clos.	Salicaceae	T	NE	SK&VR 0877
408.	*Scutia myrtina* Kurz	Rhamnaceae	L	NE	SK 0721
409.	*Shorea roxburghii* G.Don	Dipterocarpaceae	T	EN (1998)	SK 0669
410.	*Solanum betaceum* Cav.	Solanaceae	S	DD (1998)	SK 0694
411.	*Solanum erianthum* D.Don	Solanaceae	S	NE	SK&VR 1188
412.	*Solanum giganteum* Jacq.	Solanaceae	T	NE	SK&VR 0968
413.	*Solanum mauritianum* Scop.	Solanaceae	S	NE	SK&VR 0995
414.	*Sonerila parameswaranii* K.Ravik. & V.Laksh.	Melastomataceae	S	NE	SK&VR 1438
415.	*Spondias pinnata* (L.f.) Kurz.	Anacardiaceae	T	NE	SK&VR 0885
416.	*Stenocarpus salignus* R.Br.	Proteaceae	T	NE	SK&VR 1468
417.	*Sterculia foetida* L.	Malvaceae	T	NE	SK&VR 0719
418.	*Sterculia guttata* Roxb. Ex. Dc.	Malvaceae	T	NE	SK 0671
419.	*Sterospermum tetragonum* DC.	Bignoniaceae	T	NE	SK&VR 1187
420.	*Streblus asper* Lour.	Moraceae	S	NE	SK&VR 0994
421.	*Streblus taxoides* (Roth) Kurz.	Moraceae	S	NE	SK&VR 0891
422.	*Strobilanthes ciliata* Nees	Acanthaceae	S	NE	SK&VR 0879

S. No	Binomial	Family	Habit	IUCN category	Voucher No.
423.	*Strobilanthes consanguineus* Clarke	Acanthaceae	S	NE	SK 0688
424.	*Strobilanthes dimorphotricha* Hance	Acanthaceae	S	NE	SK 0693
425.	*Strobilanthes foliosus* T. Anderson	Acanthaceae	S	NE	SK 0741
426.	*Strobilanthes kunthiana* (Nees) T. Anderson	Acanthaceae	S	NE	SK&VR 1157
427.	*Strobilanthes lanata* Nees	Acanthaceae	S	NE	SK&VR 1160
428.	*Strobilanthes neoaspera* Venu & P. Daniel	Acanthaceae	S	NE	SK&VR 0991
429.	*Strobilanthes wightianus* Nees	Acanthaceae	S	NE	SK&VR 0892
430.	*Strobilanthes zenkeriana* T. Anderson	Acanthaceae	S	NE	SK 0660
431.	*Strychnos nux-vomica* L.	Loganiaceae	T	NE	SK 0722
432.	*Strychnos potatorum* L.f.	Loganiaceae	T	NE	SK 0756
433.	*Suregada lanceolata* (Willd.) Kuntze	Euphorbiaceae	T	NE	SK 0762
434.	*Swietenia mahogoni* L.	Meliaceae	T	NE	SK&VR 1174
435.	*Symplocos anamalayana* Bedd.	Symplocaceae	T	EN (1998)	SK&VR 0951
436.	*Symplocos cochinchinesis* (Lour.) Moore	Symplocaceae	T	NE	SK&VR 0850
437.	*Symplocos monantha* Wight	Symplocaceae	T	NE	SK&VR 0883
438.	*Symplocos oligandra* Bedd.	Symplocaceae	T	EN (1998)	SK 0633
439.	*Syzygium caryophyllatum* (L.) Alston	Myrtaceae	T	EN (1998)	SK 0750
440.	*Syzygium densiflorum* Wall. ex Wight and Arn.	Myrtaceae	T	VU (1998)	SK 0751
441.	*Syzygium grande* (Wight) Walp.	Myrtaceae	T	NE	SK 0759
442.	*Syzygium jambos* (L.) Alston	Myrtaceae	T	NE	SK 0766
443.	*Syzygium lanceolatum* Wight & Arn.	Myrtaceae	T	NE	SK 0770
444.	*Syzygium malabaricum* (Bedd.) Gamble	Myrtaceae	T	NE	SK 0776
445.	*Syzygium myhendrae* (Bedd. Ex Brandis) Gamble.	Myrtaceae	T	EN (1998)	SK 0767
446.	*Syzygium parameswaranii* M.Mohanan & Henry	Myrtaceae	T	NE	SK 0771
447.	*Syzygium travancoricim* Gamble	Myrtaceae	T	CR (2015)	SK&VR 1461
448.	*Syzygium zeylanicum* DC.	Myrtaceae	T	NE	SK 0772
449.	*Tabernemontana alternifolia* L.	Apocynaceae	S	NE	SK&VR 1175
450.	*Taonabo japonica* (Thunb.) Szyszyl.	Pentaphylaceae	T	NE	SK&VR 1462
451.	*Tarenna alpestris* (Wight) N.P. Balak.	Rubiaceae	S	NE	SK&VR 0980
452.	*Tarenna asiatica* (L.) O. Ktze. ex K. Schum. (L.) Kuntze ex K. Schum.	Rubiaceae	S	NE	SK&VR 0870
453.	*Terminalia arjuna* (Roxb. ex DC.) Wight and Arn.	Combretaceae	T	NE	SK&VR 0873
454.	*Terminalia catapa* L.	Combretaceae	T	NE	SK 0659
455.	*Terminalia chebula* Retz.	Combretaceae	T	NE	SK 0728
456.	*Terminalia coriacea* Wight & Arn.	Combretaceae	T	NE	SK 0730
457.	*Terminalia elliptica* Willd.	Combretaceae	T	NE	SK&VR 0977
458.	*Terminalia paniculata* Roth.	Combretaceae	T	NE	SK 0726
459.	*Terminthia paniculata* (Wall. ex G.Don) C.Y. Wu & T.L. Ming.	Anacardiaceae	T	NE	SK&VR 0979
460.	*Ternstroemia gymnanthera* (Wight and Arn.) Bedd.	Pentaphylaceae	T	NE	SK&VR 0871
461.	*Thespesia lampas* (Cav.) Dalz. and Gibs.	Malvaceae	T	NE	SK&VR 0880
462.	*Toddalia asiatica* (L.) Lam.	Rutaceae	L	NE	SK 0678
463.	*Trema orientalis* (L.) Blume	Cannabaceae	T	NE	SK 0784
464.	*Turpinia cochinchinensis* (Lour.) Merr.	Staphyleaceae	S	NE	SK&VR 0978

S. No	Binomial	Family	Habit	IUCN category	Voucher No.
465.	*Turpinia malabarica* Gamble	Staphyleaceae	S	NE	SK&VR 0964
466.	*Uvaria narum* (Dunal) Blume	Annonaceae	S	NE	SK&VR 0887
467.	*Vaccinum neilgherrense* Wight	Ericaceae	S	NE	SK 0674
468.	*Ventilago madraspatana* Gaertn.	Rhamnaceae	S	NE	SK 0789
469.	*Vernonia comorinensis* W.W.Sm.	Asteraceae	T	NE	SK&VR 0965
470.	*Vernonia travancorica* Hook.f.	Asteraceae	T	NE	SK&VR 0966
471.	*Viburnum punctatum* Buch.-Ham. ex D. Don	Adoxaceae	S	NE	SK&VR 0889
472.	*Vitex altissima* L.f.	Lamiaceae	T	NE	SK 0689
473.	*Vitex negundo* L.	Lamiaceae	S	NE	SK 0785
474.	*Volkamaria inermis* L.	Lamiaceae	S	NE	SK 0779
475.	*Walsura trifoliata* (A.Juss) Harms	Meliaceae	T	NE	SK&VR 0949
476.	*Wendlandia thyrsoidea* (Schultes) Steud.	Rubiaceae	T	NE	SK&VR 0872
477.	*Wrightia tinctoria* R.Br.	Apocynaceae	T	NE	SK&VR 0881
478.	*Xantolis tomentosa* (Roxb.) Raf.	Sapotaceae	T	NE	SK&VR 0890
479.	*Xylia xylocarpa* (Roxb.) Taub.	Fabaceae	T	NE	SK&VR 0732
480.	*Zanthoxylum limonella* Alston	Rutaceae	S	NE	SK&VR 0769
481.	*Zanthoxylum ovalifolium* Wight	Rutaceae	S	NE	SK&VR 0882
482.	*Ziziphus glabrata* Wight	Rhamnaceae	T	NE	SK 0740
483.	*Ziziphus jujuba* Mill.	Rhamnaceae	T	LC (2007)	SK 0636
484.	*Ziziphus nummularia* Wight and Arn.	Rhamnaceae	S	NE	SK 0743
485.	*Ziziphus rugosa* Lam.	Rhamnaceae	T	NE	SK 0738
486.	*Ziziphus xylopyrus* (Retz.) Willd.	Rhamnaceae	T	NE	SK&VR 0884

Endemic plants are frequently habitated in the study area of wich 8 woody species confined to the Megamalai Wildlife Sanctuary namely *Anisochillus henryi* (Fig. 1a), *Ardisia blatteri* (Fig. 1b), *Drypetes porteri* (Fig. 1c), *Elaeocarpus gaussenii* (Fig. 1e), *Ixora monticola* (Fig. 1g), *Nothopegia vajaravelui* (Fig.1j), *Sonerila parameswaranii* and *Schefflera madurainsis*. Three woody species *Garcinia travancorica* (Fig. 1d), *Symplocos oligandra* (Fig. 1k) and *Discospermum apiocarpum* said to be only confined to the Agasthyamalai range (Gopalan & Henry 2000, Richard & Muthukumar 2011) but the present collection confirms these three species representing in Megamalai wildlife sanctuary also.

Among 486 woody plant species, about 41 species are in the IUCN threat status. *Elaeocarpus gaussenii* (Fig. 1e), *Ixora johnsonii* (Fig. 1f) and *Syzygium travancoricum* these three species are in Critically Endangered category (CR), 15 species of this list is under Endangered category (EN), 12 spcies in Vulnarable category (VU), 2 species in Data deficient (DD), 1 spceies in Low Risk/ Near Threatened (LR/NT) (Table 1). There is an international effort to identify species that face extinction in order to make conservation efforts more efficient. The recent edition of the Red Data Book is based on the IUCN criteria (Lucas & Synge 1978). Since then, the criteria used to define the categories of threatened plant species have been refined considerably time to time (IUCN 2016). It has been shown that about 10% of all plant taxa are threatened globally, which gives an estimate of about 1700 of the 18000 plants recorded for the Indian subcontinent. It is important to know whether or not it represents an accurate estimate of the proportion of threatened plants in the Indian flora.

Data on distribution of plant species in the Western Ghats are increasingly available, which permits us to cross-check the status of Red Data Book list and IUCN categories for a particular floristic region. The publication of Atlas of Endemic trees of the Western Ghats (Ramesh *et al*. 1997) examines 352 woody species of endemic evergreen and semi-evergreen forest trees and shrubs. From the list has already been checked their distribution and threatening status included in Red Data Book (Puyravaud *et al.* 2003) where identified 232 woody taxa confirmed their different IUCN threatening categories.

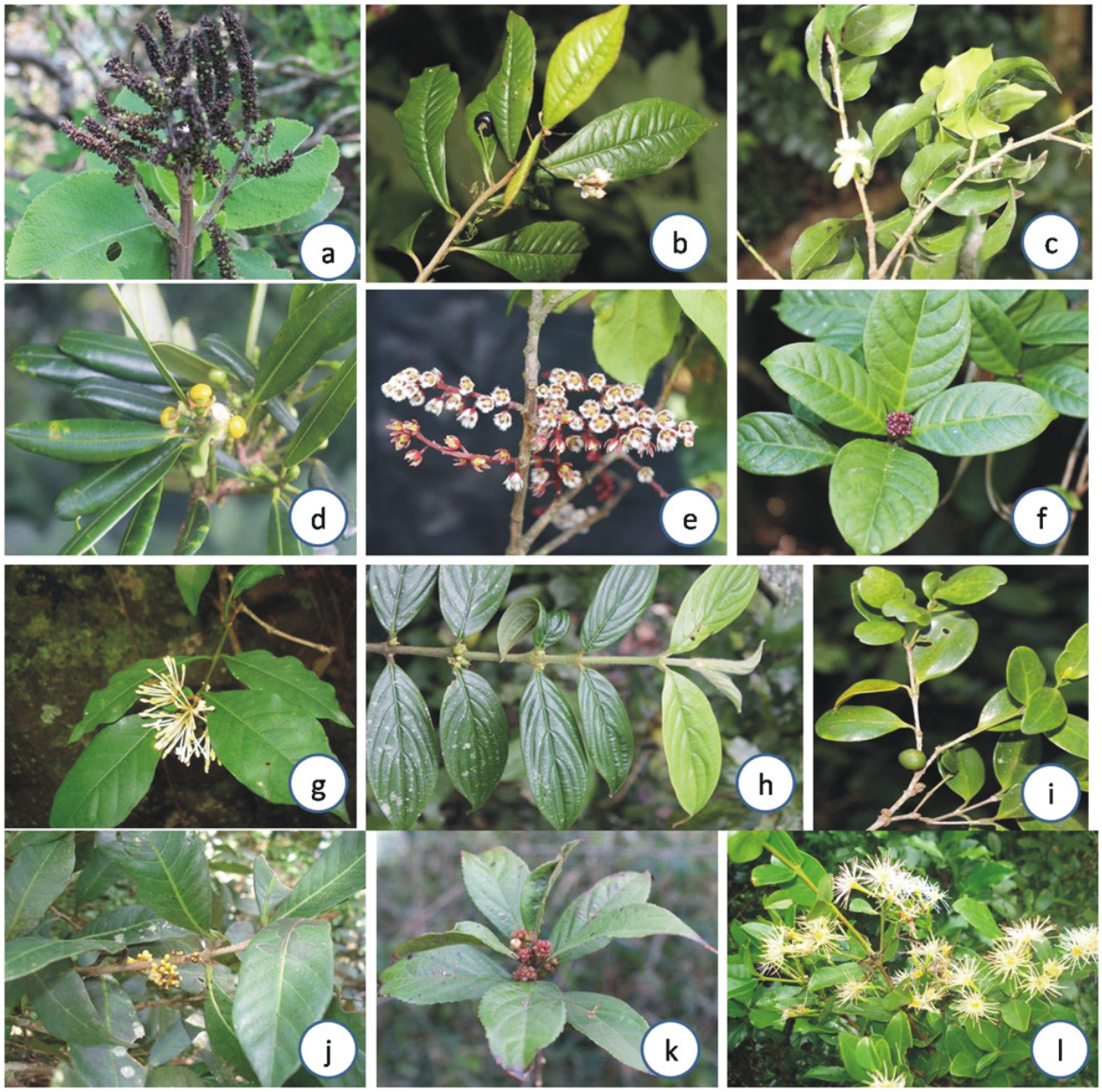

Fig. 1. a) *Anisochilus henryi* K. Ravik. & Lakshmn. b) *Ardisia blatteri* Gamble c) *Drypetes porteri* Gamble d) *Garcinia travancorica* Bedd. e) *Elaeocarpus gaussenii* Weibel f) *Ixora johnsonii* Hook.f. g) *Ixora monticola* Gamble h) *Lasianthus rostratus* Wight i) *Memecylon flavescens* Gamble j) *Nothopegia vajraveluei* K. Ravik. & Lakshmn. k) *Symplocos oligandra* Bedd. l) *Syzygium parameswaranii* Mohanan & Henry.

But still about 90% of taxa in Western Ghats belongs NE (Not Evaluated) category that was confirmed by the present study. An urgent re-assessemnt and area-wise comprehensive list of theratent plants of the Western Gahts needed for the preparation of appropriate conservation measures for their future survival. This study provided the baseline data for woody species and their diversity status in Megamalai WLS region for conservation action plan though it is protected area.

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