
RESEARCH ARTICLE

CHECKLIST OF IUCN REDLISTED THREATENED PLANTS OF KERALA

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Abstract: Threatened plants are species at high risk of extinction due to habitat loss and fragmentation, overexploitation, environmental change, invasive species, and other anthropogenic pressures, and are classified as Critically Endangered, Endangered, or Vulnerable under the Red List framework of the IUCN. This study presents a comprehensive state-level synthesis of IUCN-listed threatened plant species in Kerala based on the latest global assessments (version 2025-2). A total of 273 threatened species were documented, comprising 267 angiosperms, 4 gymnosperms, and 2 pteridophytes, with Lauraceae, Myrtaceae, and Rubiaceae as the most represented families. Of these, 45 species are Critically Endangered, 109 Endangered, and 118 Vulnerable, with 52 species endemics to Kerala, providing an updated baseline for conservation prioritisation in the state.

Keywords: Threatened plants, Extinction Risk, IUCN Red List, Kerala

INTRODUCTION

Threatened plants are species that face a high risk of extinction in the wild owing to factors such as habitat loss and fragmentation, overexploitation, restricted geographic distribution, environmental change, pollution, disease, invasive alien species and other anthropogenic pressures. These species are classified under the threatened categories of the IUCN Red List—Critically Endangered, Endangered, and Vulnerable—based on rigorous, standardised scientific assessments of population trends, distribution, and extinction risk.

The International Union for Conservation of Nature and Natural Resources (IUCN), established in 1948, is a global conservation organisation that brings together governments, non-governmental organisations (NGOs), scientists, and other experts. It aims to conserve nature and biodiversity through scientific assessments, policy guidance, the promotion of sustainable resource use and international cooperation. The organisation is best known for publishing the IUCN Red List of Threatened Species, the world's most comprehensive inventory of the global conservation status of animal, fungal and plant species.

The first formal documentation of threatened plant species by the IUCN was “The IUCN Plant Red Data Book 1978” (published in 1980), as loose-leaf data sheets covering 250 threatened species. This publication included four indigenous Indian plant species, among them, *Paphiopedilum druryi*, marking the first inclusion of a plant species from

Kerala within the IUCN Red List framework. Subsequently, the IUCN published a global compendium of Threatened Plants entitled “1997 IUCN Red List of Threatened Plants”, based on the pre-1994 IUCN categories. This list covered 33,798 vascular plant species of under different threat categories from different parts of the world, including 1236 threatened plants from India, excluding 19 Indian species ‘Extinct’ (IUCN, 1998). By 2000, the IUCN shifted from printed version toward annual digital Red List updates through its online platform (<https://www.iucnredlist.org>), which provides comprehensive global coverage of assessed species, the latest version was released in 2025 (IUCN Red List, 2025). The IUCN Red List of Threatened Species strives to provide up-to-date conservation status assessments for species worldwide. At present, the IUCN Red List includes over 172,600 assessed species, of which more than 48,600 are threatened with extinction. As of 2025, more than 76,441 plant species have been assessed (IUCN, 2025), representing only a fraction of the world's documented plant diversity.

Between 1980 and 2003, several Indian botanists published authoritative studies on the endemic and threatened flora of India, notably *Threatened Plants of India* (Jain & Sastry, 1980, 1983, 1984) and the *Red Data Book of Indian Plants*, Volumes 1–3 (Nayar & Sastry, 1987, 1988, 1990). Subsequently, the Botanical Survey of India published the *Red List of Threatened Vascular Plants of India*, based on the 1997 IUCN Red List of Threatened Plants, which

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documented 1,236 threatened vascular plant species from India (Rao *et al.*, 2003).

India is recognised as one of the richest and most biologically diverse countries in the world, ranking among the 17 mega-diverse nations globally and harbouring approximately 14% of the world's known plant species. A recent enumeration revealed that India's plant diversity comprises approximately 56,177 species, including 22,368 angiosperms, 15,986 fungi, 9,117 algae, 2,850 bryophytes, 3,151 lichens, 1,297 microbes, 1,325 pteridophytes and 83 gymnosperms (Mao *et al.*, 2025), all occurring within 2.4% of the global landmass. Several additional species were added to this list in 2025, including *Begonia nyishiorum*, *Hoya dawodiensis*, *Koenigia arunachalensis*, *Chlorophytum vanapushpam*, *Crassicaulis middletonii*, *Ophiorrhiza mizoramensis*, *Portulaca bharat*, *Townsendia hirtella*, etc.

In the absence of a recent comprehensive national Red List for India, scientists and conservationists generally rely on the online version of the IUCN Red List of Threatened Species to determine the current conservation status of Indian taxa. In this context, Kumar *et al.* (2021) published a brief analysis of IUCN Red listed threatened plants of India based on the 2020 update (version 2020-2) which documented 416 angiosperms, 12 Gymnosperms, 2 Pteridophytes, 7 Bryophytes and 1 fungal species. This work prompted the present study to compile a state-wise IUCN Red Listed threatened plants of Kerala based on the most recent IUCN Red List update (version 2025-2) focusing on the threatened angiosperms, gymnosperms, and pteridophytes occurring in the state.

Kerala, a south-western state of Peninsular India, lies between the Arabian Sea and the Western Ghats along the western coast. The state is endowed with dense tropical rainforests that support an exceptionally rich and distinctive flora with a high degree of endemism. Comprehensive floristic studies have documented approximately 4,681 species of flowering plants within the political boundaries of

Kerala, including 4,176 indigenous species (Sasidharan, 2004; Nayar *et al.*, 2006). Building on these floristic accounts, Nayar *et al.* (2008) reported that, of the 4,176 indigenous angiosperms recorded from Kerala, 163 species were categorised as 'threatened' and four as 'extinct' according to the IUCN Red List categories then in use.

Since these assessments, accelerating habitat loss, land-use change, overexploitation, biological invasions, and climate change have increasingly threatened the state's plant diversity, resulting in the inclusion of additional species in the threatened categories of the IUCN Red List in subsequent assessments. Furthermore, continued botanical exploration in Kerala has led to the discovery and description of several additional plant species, including *Humboldtia pomudiana*, *Buchanania palodensis*, *B. abrahamiana*, *Madhuca balakrishnani*, *Syzygium abrahamianum*, *Uniyala keralensis*, *Fimbristylis agasthyamalaensis*, *Peperomia vellarimalica*, *Ophiorrhiza echinata*, *O. sasidhaniana*, *Chlorophytum vanapushpam*, *Arundinella pradeepiana*, *Rungia longifolia* subsp. *keralensis*, *Syzygium sasidharanii*, *Eugenia kalamii*, *E. sphaerocarpa*, *E. cruciformis*, etc.

MATERIALS AND METHODS

The list was prepared based on the analysis of IUCN Red Listed threatened plants of India by Kumar *et al.* (2021). Each species included in the list was re-examined, and its conservation status and distribution were verified and updated using the online IUCN Red List of Threatened Species (version 2025-2). Recently assessed species were also incorporated in the present list. Species distributions were further validated with standard floristic references, including "Biodiversity Documentation for Kerala: Part 6 – Flowering Plants" (Sasidharan, 2004), "Flowering Plants of Kerala" (Nayar *et al.*, 2006), "Flowering Plants of the Western Ghats" (Nayar *et al.*, 2014), and other relevant recent publications.

Table 1: Threatened Plants of Kerala According to the IUCN Red List (Version 2025-2)

Sl. No.	Scientific Name	Family	Distribution	IUCN category	Red list criteria	Criteria version	Assessment Year
Angiosperms							
1.	<i>Strobilanthes ciliata</i> Nees*	Acanthaceae	India (Karnataka, Kerala, Tamil Nadu)	VU	A2cd	3.1	2014
2.	<i>Strobilanthes kunthiana</i> (Nees) T.Anderson ex Benth.*	Acanthaceae	India (Karnataka, Kerala, Tamil Nadu)	VU	A2c	3.1	2024
3.	<i>Hydnocarpus alpinus</i> Wight*	Achariaceae	India (Maharashtra, Karnataka, Kerala, Tamil Nadu)	VU	D1	3.1	2020
4.	<i>Hydnocarpus macrocarpus</i> (Bedd.) Warb.*	Achariaceae	India (Tamil Nadu, Kerala)	VU	B1+2c	3.1	1998
5.	<i>Hydnocarpus pentandrus</i> (Buch. -Ham.) Oken*	Achariaceae	India (Maharashtra, Karnataka, Kerala, Tamil Nadu, Karaikal, Goa)	VU	A2cd	3.1	2014
6.	<i>Crinum malabaricum</i> Lekhak & S.R.Yadav*	Amaryllidaceae	India (Kerala)	CR	B1ab(iii,v)+2ab(iii,v)	3.1	2015

7.	<i>Buchanania barberi</i> Gamble*	Anacardiaceae	India (Kerala)	CR	B2ab(iii,v); C2a(i,ii); D	3.1	2022
8.	<i>Buchanania lanceolata</i> Wight*	Anacardiaceae	India (Kerala)	VU	B1+2c.	2.3	1998
9.	<i>Gluta travancorica</i> Bedd. *	Anacardiaceae	India (Tamil Nadu, Kerala)	VU	B1ab(iii,v)+ 2ab(iii,v)	3.1	2023
10.	<i>Nothopegia aureofulva</i> Bedd. ex Hook.f.*	Anacardiaceae	India (Tamil Nadu, Kerala)	EN	B1ab(i,ii,iii) + 2ab(i,ii,iii)	3.1	2025
11.	<i>Nothopegia beddomei</i> var. <i>wynaadica</i> J.L.Ellis & V.Chandras.	Anacardiaceae	India (Kerala)	EN	B1+2c	2.3	1998
12.	<i>Goniothalamus rhynchantherus</i> Dunn*.	Annonaceae	India (Tamil Nadu, Kerala)	VU	B1ab(iii)+ 2ab(iii)	3.1	2022
13.	<i>Milusa nilagirica</i> Bedd.	Annonaceae	India (Tamil Nadu, Kerala)	VU	B1+2c	2.3	1998
14.	<i>Milusa wayanadica</i> Sujanapal <i>et</i> <i>al.</i>	Annonaceae	India (Kerala)	VU	D2	3.1	2023
15.	<i>Monoon shendurunii</i> (Basha & Sasidh.) B.Xue & R.M.K.Saunders*	Annonaceae	India (Kerala)	EN	B1+2c	2.3	1998
16.	<i>Orophea thomsonii</i> Bedd. *	Annonaceae	India (Tamil Nadu, Kerala)	EN	B1ab(iii)+ 2ab(iii)	3.1	2020
17.	<i>Orophea zeylanica</i> Hook.f. & Thomson*	Annonaceae	India (Karnataka, Kerala), Sri Lanka	VU	B2ab(iii)	3.1	2023
18.	<i>Polyalthia rufescens</i> Hook.f.	Annonaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
19.	<i>Popowea beddomeana</i> Hook.f. & Thomson*	Annonaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
20.	<i>Bouceosia indica</i> (Wight & Arn.) Plowes	Apocynaceae	India (Andhra Pradesh, Karnataka, Kerala, Tamil Nadu), Sri Lanka	VU	B2ab(iii)	3.1	2023
21.	<i>Decalepis hamiltonii</i> Wight & Arn. *	Apocynaceae	India (Andhra Pradesh, Kerala, Kerala, Tamil Nadu)	EN	A2cd	3.1	2014
22.	<i>Decalepis salicifolia</i> (Bedd. ex Hook.f.) Bruyns	Apocynaceae	India (Laccadive Islands, Tamil Nadu, Kerala)	CR	B2ab(ii,iii)	3.1	2014
23.	<i>Ilex gardneriana</i> Wight	Aquifoliaceae	India (Tamil Nadu, Kerala)	CR	D	3.1	2019
24.	<i>Amorphophallus smithsonianus</i> Sivadasan	Araceae	India (Kerala)	VU	D2	3.1	2024
25.	<i>Cryptocoryne sivadasanii</i> Bogner	Araceae	India (Karnataka, Kerala)	VU	B1ab(iii)+ 2ab(iii)	3.1	2021
26.	<i>Aralia malabarica</i> Bedd.	Araliaceae	India (Tamil Nadu, Kerala)	VU	B1+2c	2.3	1998
27.	<i>Heptapleurum bourdillonii</i> (Gamble) Lowry & G.M. Plunkett	Araliaceae	India (Kerala)	EN	B1+2c	2.3	1998
28.	<i>Arenga wightii</i> Griff*	Arecaceae	India (Karnataka, Tamil Nadu, Kerala)	VU	B1+2c	2.3	1998
29.	<i>Bentinckia condapanna</i> Berry ex Roxb. *	Arecaceae	India (Tamil Nadu, Kerala)	EN	B2ab (iii, v)	3.1	2025
30.	<i>Anaphalis beddomei</i> Hook.f.	Asteraceae	India (Tamil Nadu, Kerala)	VU	B1ab(ii,iii)	3.1	2010
31.	<i>Anaphalis leptophylla</i> DC.	Asteraceae	India (Tamil Nadu, Kerala)	VU	B2ab(ii,iii)	3.1	2010
32.	<i>Anaphalis wightiana</i> DC.	Asteraceae	India (Karnataka, Kerala, Tamil Nadu)	VU	B2ab(ii,iii)	3.1	2010
33.	<i>Impatiens parasitica</i> Bedd.	Balsaminaceae	India (Tamil Nadu, Kerala)	VU	A2c	3.1	2024
34.	<i>Ehretia wightiana</i> Wall. ex G.Don	Boraginaceae	India (Karnataka, Kerala, Tamil Nadu)	VU	B2ab(iii)	3.1	2023
35.	<i>Calophyllum apetalum</i> Willd. *	Calophyllaceae	India (Karnataka, Kerala, Maharashtra, Tamil Nadu)	VU	A2cd	3.1	2014
36.	<i>Valeriana leschenaultii</i> DC.	Caprifoliaceae	India (Tamil Nadu, Kerala)	CR	B2ab(iii)	3.1	2014
37.	<i>Euonymus acutangulus</i> Wight	Celastraceae	India (Karnataka, Kerala, Tamil Nadu)	VU	B1+2c	2.3	1998
38.	<i>Microtropis densiflora</i> Wight	Celastraceae	India (Kerala)	EN	B1+2c	2.3	1998
39.	<i>Salacia oblonga</i> Wall*	Celastraceae	India (Andhra Pradesh, Goa, Karnataka, Kerala, Tamil Nadu)	VU	A2cd	3.1	2014
40.	<i>Atuna travancorica</i> (Bedd.) Kosterm. *	Chrysobalanaceae	India (Tamil Nadu, Kerala)	CR	A2c; C2a(i)	3.1	2023
41.	<i>Poeciloneuron pauciflorum</i> Bedd. *	Clusiaceae	India (Tamil Nadu,	CR	B1+2c	2.3	1998

			Kerala)				
42.	<i>Garcinia gamblei</i> Shameer <i>et al.</i>	Clusiaceae	India (Kerala)	CR	B1ab(iii,v)+ 2ab (iii,v); C2a(i,ii); D	3.1	2025
43.	<i>Garcinia imbertii</i> Bourd. *	Clusiaceae	India (Tamil Nadu, Kerala)	CR	C2a(i)	3.1	2020
44.	<i>Garcinia indica</i> (Thouars) Choisy*	Clusiaceae	India (Karnataka, Kerala)	VU	A2cd	3.1	2014
45.	<i>Garcinia rubroechinata</i> Kosterm.	Clusiaceae	India (Tamil Nadu, Kerala)	EN	D	3.1	2020
46.	<i>Garcinia travancorica</i> Bedd.	Clusiaceae	India (Tamil Nadu, Kerala)	CR	C2a(i)	3.1	2020
47.	<i>Garcinia wightii</i> T.Anderson*	Clusiaceae	India (Tamil Nadu, Kerala)	EN	D	3.1	2020
48.	<i>Murdannia lanceolata</i> (Wight) Kammathy	Commelinaceae	India (Tamil Nadu, Kerala)	VU	D2	3.1	2010
49.	<i>Dipterocarpus bourdillonii</i> Brandis*	Dipterocarpaceae	India (Karnataka, Kerala, Tamil Nadu)	CR	C2a(i)	3.1	2020
50.	<i>Dipterocarpus indicus</i> Bedd. *	Dipterocarpaceae	India (Karnataka, Kerala, Tamil Nadu)	EN	C2a(i)	3.1	2020
51.	<i>Hopea erosa</i> (Bedd.) Slooten*	Dipterocarpaceae	India (Tamil Nadu, Kerala)	CR	C2a(i)	3.1	2020
52.	<i>Hopea glabra</i> Wight & Arn.	Dipterocarpaceae	India (Karnataka, Kerala, Tamil Nadu)	EN	C2a(i); D	3.1	2021
53.	<i>Hopea ponga</i> (Dennst.) Mabb.*	Dipterocarpaceae	India (Karnataka, Kerala, Tamil Nadu, Goa, Maharashtra)	VU	A2c	3.1	2020
54.	<i>Hopea racophloea</i> Dyer*	Dipterocarpaceae	India (Karnataka, Kerala)	EN	C2a(i)	3.1	2021
55.	<i>Hopea utilis</i> (Bedd.) Bole	Dipterocarpaceae	India (Tamil Nadu, Kerala)	EN	B1ab(ii,iii,v) +2ab(ii,iii,v); C2a(i); D	3.1	2021
56.	<i>Vateria indica</i> L.*	Dipterocarpaceae	India (Maharashtra, Karnataka, Kerala, Tamil Nadu.)	VU	A2cd	3.1	2019
57.	<i>Vateria macrocarpa</i> B.L. Gupta	Dipterocarpaceae	India (Kerala)	CR	B1ab(iii,v)	3.1	2021
58.	<i>Vatica chinensis</i> L.*	Dipterocarpaceae	Karnataka, Kerala	EN	A2c+3c	3.1	2020
59.	<i>Diospyros atrata</i> (Thwaites) Alston	Ebenaceae	India (Tamil Nadu, Kerala)	VU	B1+2c	2.3	1998
60.	<i>Diospyros barberi</i> Ramaswami	Ebenaceae	India (Tamil Nadu, Kerala)	VU	B1+2c	2.3	1998
61.	<i>Diospyros candolleana</i> Thwaites*	Ebenaceae	India (Andhra Pradesh, Karnataka, Kerala, Tamil Nadu, Goa, Maharashtra, Orissa)	VU	A2cd	3.1	2014
62.	<i>Diospyros crumenata</i> Thwaites*	Ebenaceae	India (Andaman & Nicobar Islands, Maharashtra, Karnataka, Tamil Nadu, Kerala)	CR	C2a(i)	3.1	2022
63.	<i>Diospyros paniculata</i> Dalzell*	Ebenaceae	India (Maharashtra, Goa, Karnataka, Kerala, Tamil Nadu)	VU	A2cd	3.1	2014
64.	<i>Diospyros trichophylla</i> Alston	Ebenaceae	India Andaman-Nicobar Islands, Kerala), Sri Lanka	VU	A1c, B1+2c.	2.3	1998
65.	<i>Elaeocarpus gausenii</i> Weibel	Elaeocarpaceae	India (Tamil Nadu, Kerala)	CR	B1ab(iii)+ 2ab(iii); D	3.1	2021
66.	<i>Elaeocarpus recurvatus</i> Corner	Elaeocarpaceae	India (Tamil Nadu, Kerala)	EN	A2c	3.1	2024
67.	<i>Elaeocarpus venustus</i> Bedd.	Elaeocarpaceae	India (Tamil Nadu, Kerala)	CR	B1ab(iii,v)	3.1	2022
68.	<i>Elaeocarpus weibelii</i> (Zmarzty) Shareef <i>et al.</i> *	Elaeocarpaceae	India (Karnataka, Kerala)	EN	B2ab(iii)	3.1	2023
69.	<i>Eriocaulon pectinatum</i> Ruhland	Eriocaulaceae	India (Tamil Nadu, Kerala)	VU	B1ab(iii)+ 2ab(iii)	3.1	2010
70.	<i>Eriocaulon richardianum</i> (Fyson) R.Ansari & N.P. Balakr.	Eriocaulaceae	India (Karnataka, Kerala)	EN	B2ab(ii,iii)	3.1	2010
71.	<i>Eriocaulon sivarajanii</i> R.Ansari & N.P. Balakr.	Eriocaulaceae	India (Kerala)	CR	B1ab(iii)+ 2ab(iii)	3.1	2010
72.	<i>Tritaxis beddomei</i> Benth.	Euphorbiaceae	India (Tamil Nadu, Kerala)	EN	B1ab(i,iii)	3.1	2019
73.	<i>Euphorbia santapau</i> A.N.Henry	Euphorbiaceae	India (Tamil Nadu, Kerala)	EN	B1+2cd	2.3	1998

74.	<i>Euphorbia vajravelui</i> Binojk. & N.P. Balakr. *	Euphorbiaceae	India (Tamil Nadu, Kerala)	EN	B1ab(iii)+2ab(iii); D	3.1	2021
75.	<i>Archidendron bigeminum</i> (L.) I.C.Nielsen*	Fabaceae	Indian Subcontinent, Nicobar Islands	VU	B1+2c	2.3	1998
76.	<i>Cynometra beddomei</i> Prain*	Fabaceae	India (Karnataka, Kerala)	EN	D	3.1	2018
77.	<i>Cynometra bourdillonii</i> Gamble*	Fabaceae	India (Karnataka, Kerala)	EN	B2ab(iii)	3.1	2023
78.	<i>Cynometra travancorica</i> Bedd. *	Fabaceae	Tamil Nadu, Kerala, Karnataka	EN	B1+2c	2.3	1998
79.	<i>Dalbergia latifolia</i> Roxb. *z	Fabaceae	India (Uttar Pradesh, Tamil Nadu, Sikkim, Karnataka, Kerala, Andhra Pradesh), Indonesia (Jawa), Myanmar, Nepal	VU	A1cd	3.1	2020
80.	<i>Dalbergia sissoides</i> Graham ex Wight & Arn.	Fabaceae	India (Karnataka, Kerala, Tamil Nadu), Indonesia (Jawa)	VU	A4bcd	3.1	2021
81.	<i>Dialium travancoricum</i> Bourd.	Fabaceae	India (Kerala)	CR	B2ab (i,ii,iii,iv,v); C2a(i,ii); D	3.1	2023
82.	<i>Humboldtia bourdillonii</i> Prain*	Fabaceae	India (Tamil Nadu, Kerala)	VU	A2c;B1ab(iii)+2ab(iii)	3.1	2024
83.	<i>Humboldtia sanjappae</i> Sasidh. & Sujanapal*	Fabaceae	India (Kerala)	CR	B1ab(iii)+2ab(iii); D	3.1	2024
84.	<i>Humboldtia unijuga</i> var. <i>trijuga</i> J.Joseph & V.Chandras*	Fabaceae	India (Kerala)	CR	B1+2c	2.3	1998
85.	<i>Humboldtia unijuga</i> Bedd. var. <i>unijuga</i>	Fabaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
86.	<i>Humboldtia vahliana</i> Wight*	Fabaceae	India (Tamil Nadu, Kerala)	EN	B2ab(i,ii,iii,v)	3.1	2014
87.	<i>Prioria pinnata</i> (Roxb. ex DC.) Breteler*	Fabaceae	India (Karnataka, Kerala, Tamil Nadu)	VU	A1acd	3.1	2022
88.	<i>Pterocarpus santalinus</i> L.f.*	Fabaceae	India (Andhra Pradesh): introduced to Kerala	EN	A2cd	3.1	2020
89.	<i>Coleus idukkianus</i> (J.Mathew, Yohannan & B.J.Conn) Smitha	Lamiaceae	India (Kerala)	EN	B1ab(iii)+2ab(iii)	3.1	2023
90.	<i>Actinodaphne bourneae</i> Gamble	Lauraceae	India (Tamil Nadu, Kerala)	VU	B1ab(iii)+2ab(iii)	3.1	2019
91.	<i>Actinodaphne campanulata</i> Hook.f. var. <i>campanulata</i>	Lauraceae	India (Tamil Nadu, Kerala)	VU	B1+2c	2.3	1998
92.	<i>Actinodaphne campanulata</i> var. <i>obtusa</i> Gamble	Lauraceae	India (Kerala)	EN	B1+2c	2.3	1998
93.	<i>Actinodaphne lanata</i> Meisn.	Lauraceae	India (Tamil Nadu, Kerala)	VU	B1ab(iii)+2ab(iii)	3.1	2019
94.	<i>Actinodaphne lawsonii</i> Gamble	Lauraceae	Karnataka, Kerala, Tamil Nadu	VU	B1ab(iii)+2ab(iii)	3.1	2020
95.	<i>Actinodaphne salicina</i> Meisn.	Lauraceae	India (Tamil Nadu, Kerala)	VU	B2ab(iii)	3.1	2019
96.	<i>Actinodaphne shendurunii</i> Robi & Udayan*	Lauraceae	India (Kerala)	EN	B1ab(iii)+2ab(iii)	3.1	2019
97.	<i>Beilschmiedia dalzellii</i> (Meisn.) Kosterm.	Lauraceae	India (Maharashtra, Karnataka, Kerala)	VU	B2ab(i,ii,iii,iv,v)	3.1	2019
98.	<i>Cinnamomum chemungianum</i> M.Mohanani & A.N. Henry	Lauraceae	India (Kerala)	CR	D	3.1	2016.
99.	<i>Cinnamomum filipedicellatum</i> Kosterm. *	Lauraceae	India (Tamil Nadu, Kerala)	EN	D	3.1	2019
100.	<i>Cinnamomum gamblei</i> Geethakum. et al.	Lauraceae	India (Tamil Nadu, Kerala, Karnataka)	EN	C2a(i)	3.1	2018
101.	<i>Cinnamomum goaense</i> Kosterm.	Lauraceae	India (Goa, Kerala)	EN	B1ab(i,ii,iii)+2ab(i,ii,iii)	3.1	2019
102.	<i>Cinnamomum keralaense</i> Kosterm.	Lauraceae	India (Tamil Nadu, Kerala)	EN	C2a(i)	3.1	2019
103.	<i>Cinnamomum litsaeifolium</i> Thwaites	Lauraceae	India (Tamil Nadu, Kerala), Sri Lanka	VU	B2ab(i,ii,iii)	3.1	2019
104.	<i>Cinnamomum macrocarpum</i> Hook.f.	Lauraceae	India (Tamil Nadu, Kerala, Karnataka)	VU	A2cd; D1	3.1	2019
105.	<i>Cinnamomum perottetii</i> Meisn.	Lauraceae	India (Tamil Nadu, Kerala)	EN	C2a(i)	3.1	2019
106.	<i>Cinnamomum riparium</i> Gamble*	Lauraceae	India (Tamil Nadu, Karnataka, Kerala)	EN	D	3.1	2019
107.	<i>Cinnamomum sulphuratum</i> Nees*	Lauraceae	India (Tamil Nadu, Kerala, Karnataka)	VU	A2cd	3.1	2014

108.	<i>Cinnamomum travancoricum</i> Gamble	Lauraceae	India (Tamil Nadu, Kerala, Karnataka)	CR	D	3.1	2019
109.	<i>Cinnamomum walaiwarens</i> Kosterm.	Lauraceae	India (Tamil Nadu, Kerala)	CR	C2a(i)	3.1	2019
110.	<i>Cinnamomum wightii</i> Meisn.	Lauraceae	India (Tamil Nadu, Kerala, Karnataka)	EN	B1ab(i,ii,iii,iv)	3.1	2014
111.	<i>Cryptocarya anamalayana</i> Gamble	Lauraceae	India (Tamil Nadu, Kerala)	EN	B1ab(iii)+2ab(iii)	3.1	2019
112.	<i>Cryptocarya lawsonii</i> Gamble	Lauraceae	India (Tamil Nadu, Kerala, Karnataka)	VU	C2a(i)	3.1	2019
113.	<i>Cryptocarya praetervis</i> M. Gangop. et al	Lauraceae	India (Tamil Nadu, Kerala)	VU	B2ab(iii)	3.1	2019
114.	<i>Cryptocarya stocksii</i> Meisn.	Lauraceae	India (Tamil Nadu, Kerala, Karnataka)	VU	B1+2c	2.3	1998
115.	<i>Litsea beddomei</i> Hook.f.	Lauraceae	India (Tamil Nadu, Kerala)	EN	B2ab(i,ii,iii)	3.1	2020
116.	<i>Litsea ghatica</i> C.J.Saldahna	Lauraceae	India (Maharashtra, Kerala, Karnataka, Goa)	VU	B1ab(i,ii,iii)+2ab(i,ii,iii)	3.1	2019
117.	<i>Litsea keralana</i> Kosterm.	Lauraceae	India (Tamil Nadu, Kerala)	VU	B1ab(i,ii,iii)+2ab(i,ii,iii)	3.1	2019
118.	<i>Litsea mysorensis</i> Gamble	Lauraceae	India (Tamil Nadu, Kerala, Karnataka)	VU	B1ab(i,ii,iii)+2ab(i,ii,iii)	3.1	2019
119.	<i>Litsea nigrescens</i> Gamble*	Lauraceae	India (Tamil Nadu, Kerala)	VU	B2ab(i,ii,iii)	3.1	2019
120.	<i>Litsea oleoides</i> (Meisn.) Hook.f.	Lauraceae	India (Tamil Nadu, Kerala)	VU	B1ab(iii)+2ab(iii)	3.1	2020
121.	<i>Litsea travancorica</i> Gamble*	Lauraceae	India (Kerala, Karnataka, Tamil Nadu)	VU	B2ab(i,ii,iii)	3.1	2020
122.	<i>Litsea udayanii</i> Robi	Lauraceae	India (Tamil Nadu, Kerala)	VU	B1ab(iii)+2ab(iii)	3.1	2023
123.	<i>Neolitsea fischeri</i> Gamble*	Lauraceae	India (Tamil Nadu, Kerala)	VU	B1ab(iii)+2ab(iii)	3.1	2020
124.	<i>Lindernia manilaliana</i> Sivar.	Linderniaceae	India (Kerala)	EN	B1ab(ii,iii)	3.1	2010
125.	<i>Utricularia cecilii</i> P.Taylor	Linderniaceae	India (Kerala, Karnataka)	EN	B1ab(i,ii,iii)+2ab(i,ii,iii)	3.1	2010
126.	<i>Utricularia wightiana</i> P.Taylor	Linderniaceae	India (Tamil Nadu, Kerala)	VU	B1ab(iii)	3.1	2020
127.	<i>Hugonia belli</i> Sedgw.	Limnanthaceae	India (Kerala, Karnataka, Tamil Nadu)	VU	B1ab(i,ii,iii,iv)+2ab(i,ii,iii,iv)	3.1	2025
128.	<i>Rotala cookii</i> K.T. Joseph & Sivar.	Lythraceae	India (Kerala)	EN	B1ab(i,iii)+2ab(i,iii)	3.1	2010
129.	<i>Rotala malabarica</i> Pradeep et al.	Lythraceae	India (Kerala)	CR	B1ab(i,ii,iii)+2ab(i,ii,iii)	3.1	2010
130.	<i>Rotala ritchiei</i> Koehne	Lythraceae	India (Maharashtra, Tamil Nadu, Kerala, Karnataka,)	EN	B1ab(ii,iii)+2ab(ii,iii)	3.1	2010
131.	<i>Magnolia nilagirica</i> (Zenker) Figlar	Magnoliaceae	India (Karnataka, Kerala, Tamil Nadu), Sri Lanka	VU	A2cd	3.1	2014
132.	<i>Julostylis ampumalensis</i> Pradeep & Sivar.	Malvaceae	India (Kerala)	CR	B1ab(iii,v); C2a(i); D	3.1	2023
133.	<i>Julostylis polyandra</i> Ravi & Anil Kumar*	Malvaceae	India (Kerala)	EN	B1+2c	2.3	1998
134.	<i>Pterospermum reticulatum</i> Wight & Arn.*	Malvaceae	India (Tamil Nadu, Kerala, Karnataka)	VU	B1+2c	2.3	1998
135.	<i>Medinilla anamalaiana</i> Sasidh. & Sujanapal	Melastomataceae	India (Kerala)	EN	D	3.1	2023
136.	<i>Memecylon flavescens</i> Gamble*	Melastomataceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
137.	<i>Memecylon grande</i> Retz.	Melastomataceae	India (Karnataka, Kerala, Tamil Nadu), Sri Lanka, Java, Singapore	VU	A1c, B1+2c	2.3	1998
138.	<i>Memecylon lawsonii</i> Gamble*	Melastomataceae	India (Tamil Nadu, Kerala)	VU	B1+2c	2.3	1998
139.	<i>Memecylon macrocarpum</i> Thwaites*	Melastomataceae	India (Karnataka, Kerala, Tamil Nadu), Sri Lanka	VU	A1c, B1+2c	2.3	1998
140.	<i>Memecylon rostratum</i> Thwaites	Melastomataceae	India (Karnataka, Kerala, Tamil Nadu), Sri Lanka	VU	A1c	2.3	1998

141.	<i>Memecylon sivadasanii</i> N. Mohanan <i>et al.</i> *	Melastomataceae	India (Kerala)	VU	D2	3.1	2023
142.	<i>Memecylon subramanii</i> A.N.Henry	Melastomataceae	Tamil Nadu, Kerala	EN	B1+2c	2.3	1998
143.	<i>Memecylon sylvaticum</i> Thwaites *	Melastomataceae	India (Tamil Nadu, Kerala), Sri Lanka	VU	A1c	2.3	1998
144.	<i>Memecylon varians</i> Thwaites	Melastomataceae	India (Tamil Nadu, Kerala); Sri Lanka	VU	A1c	2.3	1998
145.	<i>Aglaiia apiocarpa</i> Hiern	Meliaceae	India (Tamil Nadu, Kerala)	VU	A1c	2.3	1998
146.	<i>Aglaiia bourdillonii</i> Gamble	Meliaceae	India (Tamil Nadu, Kerala)	VU	B1+2c	2.3	1998
147.	<i>Aglaiia malabarica</i> Sasidh. *	Meliaceae	India (Kerala)	EN	B1ab (ii, iii) + 2ab (ii, iii)	3.1	2021
148.	<i>Dysoxylum beddomei</i> Hiern	Meliaceae	India (Karnataka, Kerala, Tamil Nadu)	EN	B1+2c	2.3	1998
149.	<i>Dysoxylum ficiforme</i> Gamble	Meliaceae	India (Tamil Nadu, Kerala)	VU	B1+2c	2.3	1998
150.	<i>Dysoxylum malabaricum</i> Bedd. ex C. DC. *	Meliaceae	India (Tamil Nadu, Maharashtra, Kerala, Karnataka)	EN	A2cd	3.1	2014
151.	<i>Reinwardtiidendron anamalaiense</i> (Bedd.) Mabb.*	Meliaceae	India (Tamil Nadu, Maharashtra, Kerala, Karnataka)	VU	A2c	3.1	2023
152.	<i>Nymphoides macrosperma</i> K.V. Nair	Menyanthaceae	India (Kerala)	CR	B2ab(iii)	3.1	2011
153.	<i>Nymphoides krishnakasara</i> K.T. Joseph & Sivr.	Menyanthaceae	India (Kerala)	EN	B1ab (ii, iii) + 2ab (ii, iii)	3.1	2011
154.	<i>Nymphoides sivarajanii</i> K.T. Joseph	Menyanthaceae	India (Kerala)	CR	B2ab (i, ii, iii)	3.1	2011
155.	<i>Ficus beddomei</i> King*	Moraceae	India (Karnataka, Kerala, Tamil Nadu)	EN	A2c	3.1	2022
156.	<i>Gymmacranthera canarica</i> (Bedd. ex King) Warb.*	Myristicaceae	India (Karnataka, Kerala, Tamil Nadu)	VU	B1+2c, D2	2.3	1998
157.	<i>Myristica magnifica</i> Bedd. *	Myristicaceae	India (Tamil Nadu, Maharashtra, Kerala, Karnataka), Sri Lanka	VU	A2c	3.1	2023
158.	<i>Myristica malabarica</i> Lam.*	Myristicaceae	India (Maharashtra, Goa, Kerala, Karnataka), Sri Lanka	VU	A2c	3.1	2023
159.	<i>Ardisia amplexicaulis</i> Bedd.	Myrsinaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
160.	<i>Ardisia blatteri</i> Gamble	Myrsinaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
161.	<i>Ardisia sonchifolia</i> Mez	Myrsinaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
162.	<i>Maesa velutina</i> Mez*	Myrsinaceae	India (Kerala, Karnataka)	EN	B1+2c	2.3	1998
163.	<i>Eugenia argentea</i> Bedd.	Myrtaceae	India (Tamil Nadu, Kerala)	CR	D	3.1	2019
164.	<i>Eugenia discifera</i> Gamble	Myrtaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
165.	<i>Eugenia floccosa</i> Bedd.	Myrtaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
166.	<i>Eugenia indica</i> (Wight) Chithra	Myrtaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
167.	<i>Eugenia rotleriana</i> Wight & Arn. *	Myrtaceae	India (Tamil Nadu, Kerala)	VU	B1+2c	2.3	1998
168.	<i>Eugenia singampattiana</i> Bedd.	Myrtaceae	India (Tamil Nadu, Kerala)	EN	B1ab(iii)	3.1	2019
169.	<i>Eugenia terpnophylla</i> Thwaites	Myrtaceae	India (Kerala), Sri Lanka	EN	B1+2c	2.3	1998
170.	<i>Eugenia wynadensis</i> Bedd.	Myrtaceae	India (Karnataka, Kerala, Tamil Nadu)	CR	B1+2c	2.3	1998
171.	<i>Syzygium beddomei</i> (Duthie) Chithra	Myrtaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
172.	<i>Syzygium benthamianum</i> (Wight & Duthie) Gamble	Myrtaceae	India (Tamil Nadu, Kerala)	VU	B1+2c	2.3	1998
173.	<i>Syzygium bourdillonii</i> (Gamble) Rathakr. & N.C.Nair*	Myrtaceae	India (Tamil Nadu, Kerala)	EN	A2c; B2ab (i,ii,iii,iv,v); C2a(i)	3.1	2023
174.	<i>Syzygium calophyllifolium</i> Walp.	Myrtaceae	India (Tamil Nadu, Kerala)	EN	C2a(i)	3.1	2022
175.	<i>Syzygium caryophyllatum</i> (L.)	Myrtaceae	India (Maharashtra, Goa,	VU	C2a(i)	3.1	2023

	Alston*		Kerala, Karnataka, Tamil Nadu), Sri Lanka, Malesia				
176.	<i>Syzygium chavaran</i> (Bourd.) Gamble	Myrtaceae	India (Kerala)	EN	B1+2c	2.3	1998
177.	<i>Syzygium courtallense</i> (Gamble) Alston	Myrtaceae	India (Tamil Nadu, Kerala), Sri Lanka	CR	B1ab(iii,v); C2a(i); D	3.1	2023
178.	<i>Syzygium densiflorum</i> Wall. ex Wight & Arn.	Myrtaceae	India (Maharashtra, Kerala, Tamil Nadu)	VU	A2c	3.1	2023
179.	<i>Syzygium fergusonii</i> (Trimen) Gamble	Myrtaceae	India (Tamil Nadu, Kerala), Sri Lanka	EN	B1+2c	2.3	1998
180.	<i>Syzygium makul</i> Gaertn. *	Myrtaceae	India (Kerala), Sri Lanka	VU	A2cd; B2ab (iii, v)	3.1	2024
181.	<i>Syzygium microphyllum</i> Gamble	Myrtaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
182.	<i>Syzygium myhendrae</i> (Bedd. ex Brandis) Gamble*	Myrtaceae	India (Karnataka, Kerala, Tamil Nadu)	EN	B1+2c	2.3	1998
183.	<i>Syzygium neesianum</i> Arn.	Myrtaceae	India (Tamil Nadu, Kerala), Sri Lanka	VU	A2c; B2ab(iii)	3.1	2024
184.	<i>Syzygium occidentale</i> (Bourd.) Gandhi*	Myrtaceae	India (Karnataka, Kerala, Tamil Nadu)	EN	A2c+4c; B2ab (i,ii,iii,iv,v)	3.1	2022
185.	<i>Syzygium palghatense</i> Gamble	Myrtaceae	India (Kerala)	CR	B1ab(iii)+ 2ab(iii); D	3.1	2022
186.	<i>Syzygium parameswaranii</i> M.Mohanani & A.N.Henry	Myrtaceae	India (Tamil Nadu, Kerala)	EN	B1ab(iii,v)+ 2ab(iii,v); C2a(i)	3.1	2022
187.	<i>Syzygium periyarensis</i> Augustine & Sasidh.	Myrtaceae	India (Kerala)	CR	D	3.1	2022
188.	<i>Syzygium ramavarma</i> (Bourd.) Chithra	Myrtaceae	India (Tamil Nadu, Kerala)	EN	B1ab(iii,v)+ 2ab (iii,v); C2a(i)	3.1	2022
189.	<i>Syzygium sasidharanii</i> Sujanalpal	Myrtaceae	India (Tamil Nadu, Kerala)	CR	C2a(i)	3.1	2022
190.	<i>Syzygium stocksii</i> (Duthie) Gamble*	Myrtaceae	India (Kerala, Karnataka, Tamil Nadu, Maharashtra)	VU	A2c	3.1	2023
191.	<i>Anacolosia densiflora</i> Bedd. *	Olacaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
192.	<i>Chionanthus mala-elengi</i> subsp. <i>linocieroides</i> (Wight) P.S.Green*	Olacaceae	India (Karnataka, Kerala, Tamil Nadu)	EN	B1+2c	2.3	1998
193.	<i>Diplocentrum congestum</i> Wight	Orchidaceae	India (Karnataka, Kerala, Tamil Nadu)	VU	D1	3.1	2024
194.	<i>Fimbristylis dauciformis</i> Govind.	Orchidaceae	India (Karnataka, Kerala, Maharashtra)	EN	B2ab(i,ii,iii)	3.1	2010
195.	<i>Fimbristylis hirsutifolia</i> Govind.	Orchidaceae	India (Kerala)	CR	B1ab(i,ii,iii) + 2ab(i,ii,iii)	3.1	2010
196.	<i>Fuirena swamyi</i> Govind.	Orchidaceae	India (Tamil Nadu, Kerala)	VU	D2	3.1	2010
197.	<i>Paphiopedilum druryi</i> (Bedd.) Stein*	Orchidaceae	India (Tamil Nadu, Kerala)	CR	B1ab(ii,iii,v) + 2ab(ii,iii,v); C1	3.1	2014
198.	<i>Vanda spathulata</i> Spreng.*	Orchidaceae	India (Karnataka, Kerala, Tamil Nadu, Andhra Pradesh); Sri Lanka	VU	A2cd	3.1	2013
199.	<i>Vanda wightii</i> Rchb.f.*	Orchidaceae	India (Karnataka, Kerala, Tamil Nadu), Sri Lanka	VU	B2ab(iii,v)	3.1	2024
200.	<i>Aporosa bourdillonii</i> Stapf	Phyllanthaceae	India (Kerala)	EN	B1ab (iii, v) +2ab (iii, v); C2a(i); D	3.1	2021
201.	<i>Aporosa cardiosperma</i> (Gaertn.) Merr.*	Phyllanthaceae	India (Maharashtra, Goa, Karnataka, Kerala, Tamil Nadu); Sri Lanka	VU	A1c	2.3	1998
202.	<i>Aporosa fusiformis</i> Thwaites	Phyllanthaceae	India, Sri Lanka	CR	B1+2c	2.3	1998
203.	<i>Cleistanthus malabaricus</i> (Müll.Arg.) Müll.Arg.*	Phyllanthaceae	India (Maharashtra, Karnataka, Kerala, Tamil Nadu)	EN	B2ab(iii)	3.1	2023
204.	<i>Cleistanthus travancorensis</i> Jabl.	Phyllanthaceae	India (Karnataka, Kerala, Tamil Nadu)	EN	B1+2c	2.3	1998
205.	<i>Glochidion bourdillonii</i> Gamble	Phyllanthaceae	India (Karnataka, Kerala, Tamil Nadu)	VU	B1+2c	2.3	1998

206.	<i>Glochidion johnstonei</i> Hook.f.*	Phyllanthaceae	India (Goa, Kerala)	VU	B1+2c	2.3	1998
207.	<i>Phyllanthus indofischeri</i> Bennet	Phyllanthaceae	India (Tamil Nadu, Kerala, Karnataka, Andhra Pradesh)	VU	A2cd	3.1	2014
208.	<i>Piper barberi</i> Gamble*	Piperaceae	India (Tamil Nadu, Kerala)	EN	B1ab(i,ii,iii,v)+ 2ab(i,ii,iii,v)	3.1	2014
209.	<i>Dimeria hohenackeri</i> Hochst. ex Miq.	Piperaceae	India (Kerala, Goa, Maharashtra, Karnataka)	EN	B2ab(ii,iii,iv,v)	3.1	2010
210.	<i>Ischaemum jayachandranii</i> R.Ansari, V.S.Ramach. & Sreek.	Poaceae	India (Kerala)	CR	B1ab(ii,iii)+ 2ab(ii,iii)	3.1	2010
211.	<i>Ischaemum vembnadense</i> R.B. Patil & D'Cruz	Poaceae	India (Kerala)	EN	B1ab(iii)+ 2ab(iii)	3.1	2010
212.	<i>Linnopoa meeboldii</i> (C.E.C. Fisch.) C.E. Hubb.	Poaceae	India (Kerala, Karnataka)	EN	B2ab(iii)	3.1	2010
213.	<i>Oryza malampuzhaensis</i> Krishnasw. & Chandras.	Poaceae	India (Kerala)	VU	B1ab(iii,v)	3.1	2017
214.	<i>Farmeria indica</i> Willis	Podostemaceae	India (Tamil Nadu, Kerala)	EN	B1ab(i,ii,iii) + 2ab(i,ii,iii)	3.1	2010
215.	<i>Farmeria metzgerioides</i> Willis	Podostemaceae	India (Kerala), Sri Lanka	VU	B2ab(iii,v)	3.1	2010
216.	<i>Podostemum munnarensense</i> Nagendran & Arekal	Podostemaceae	India (Kerala)	EN	B1ab(iii)+ 2ab(iii)	3.1	2010
217.	<i>Polypleurum filifolium</i> (Ramam. & J. Joseph) A.S.Rao & Hajra	Podostemaceae	India (Orissa, Kerala)	VU	B1ab(iii,v)+ 2ab(iii,v)	3.1	2010
218.	<i>Willisia selaginoides</i> (Bedd.) Warm. ex Wille	Podostemaceae	India (Tamil Nadu, Kerala)	VU	B1ab(i,ii,iii)	3.1	2010
219.	<i>Drypetes gardneri</i> (Thwaites) Pax & K. Hoffm.*	Putranjivaceae	India (Kerala), Sri Lanka	EN	B1+2c	2.3	1998
220.	<i>Drypetes wightii</i> (Hook.f.) Pax & K.Hoffm.	Putranjivaceae	India (Tamil Nadu, Kerala)	VU	B1+2c	2.3	1998
221.	<i>Colubrina travancorica</i> Bedd.*	Rhamnaceae	India (Kerala)	EN	B1ab(iii)+ 2ab(iii)	3.1	2024
222.	<i>Byrsophyllum tetrandrum</i> (Bedd.) Bedd.	Rubiaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
223.	<i>Canthiumera neilgherrensis</i> (Wight) K.M.Wong	Rubiaceae	India (Tamil Nadu, Kerala)	VU	B1ab(iii)+ 2ab(iii)	3.1	2024
224.	<i>Coffea neobridsoniae</i> A.P.Davis*	Rubiaceae	India (Tamil Nadu, Kerala, Karnataka)	EN	B2ab(iii)	3.1	2017
225.	<i>Coffea arabica</i> L.*	Rubiaceae	India (Cultivated); native to Ethiopia, South Sudan	EN	A3b	3.1	2018
226.	<i>Coffea travancorensis</i> Wight & Arn. *	Rubiaceae	India (Tamil Nadu, Kerala); Sri Lanka	VU	B2ab(i,ii,iii)	3.1	2017
227.	<i>Ixora agasthyamalayana</i> Sivad. & N. Mohanan*	Rubiaceae	India (Kerala)	VU	D2	3.1	2023
228.	<i>Ixora johnsonii</i> Hook.f.*	Rubiaceae	India (Kerala)	CR	B1+2c	2.3	1998
229.	<i>Ixora lawsoni</i> Gamble	Rubiaceae	India (Kerala, Karnataka)	EN	B1+2c	2.3	1998
230.	<i>Ixora malabarica</i> (Dennst.) Mabb.	Rubiaceae	India (Kerala, Karnataka)	VU	B1+2c	2.3	1998
231.	<i>Lasianthus ciliatus</i> Wight	Rubiaceae	India (Tamil Nadu, Kerala)	VU	D2	2.3	1998
232.	<i>Lasianthus rostratus</i> Wight	Rubiaceae	India (Tamil Nadu, Kerala)	VU	B1+2c	2.3	1998
233.	<i>Litosanthes capitulatus</i> (Wight) Deb.& M. Gangop.	Rubiaceae	India (Karnataka, Kerala, Tamil Nadu)	VU	B1+2c	2.3	1998
234.	<i>Nostolachma crassifolia</i> (Gamble) Deb & Lahiri	Rubiaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
235.	<i>Ochreinauclea missionis</i> (Wall. ex G.Don) Ridsdale*	Rubiaceae	India (Kerala, Karnataka, Tamil Nadu, Goa, Maharashtra)	VU	3.1	3.1	2019
236.	<i>Psychotria beddomei</i> Deb.& M.Gango.	Rubiaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
237.	<i>Psychotria connata</i> Wall.	Rubiaceae	India (Tamil Nadu, Kerala)	VU	B1ab(iii)+ 2ab(iii)	3.1	2023
238.	<i>Psychotria globicephala</i> Gamble*	Rubiaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
239.	<i>Psychotria macrocarpa</i> Hook.f.	Rubiaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
240.	<i>Psychotria nudiflora</i> Wight & Arn.*	Rubiaceae	India (Tamil Nadu, Kerala)	VU	B1ab(iii)+ 2ab(iii)	3.1	2023
241.	<i>Psydrax ficiformis</i> (Hook.f.) Bridson*	Rubiaceae	India (Karnataka, Kerala, Tamil Nadu)	EN	B1+2c	2.3	1998
242.	<i>Psydrax pergracilis</i> (Bourd.) Ridsale*	Rubiaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998

243.	<i>Saprosma fragrans</i> Bedd.	Rubiaceae	India (Karnataka, Kerala, Tamil Nadu)	VU	B1+2c	2.3	1998
244.	<i>Tarenna monosperma</i> (Wight & Arn.) N.P. Balakr. *	Rubiaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
245.	<i>Tarenna nilagirica</i> (Bedd.) Bremek.	Rubiaceae	India (Karnataka, Kerala, Tamil Nadu)	VU	B1+2c	2.3	1998
246.	<i>Chloroxylon swietenia</i> DC.*	Rubiaceae	India (Tamil Nadu, Kerala, Andhra Pradesh), Sri Lanka	VU	A1c	2.3	1998
247.	<i>Casearia wynadensis</i> Bedd.*	Salicaceae	India (Karnataka, Kerala, Tamil Nadu)	VU	A2c; B1ab(iii)+ 2ab(iii)	3.1	2024
248.	<i>Homalium jainii</i> A.N.Henry & Swamin.	Salicaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
249.	<i>Homalium travancoricum</i> Bedd.	Salicaceae	India (Tamil Nadu, Kerala)	VU	B1+2c	2.3	1998
250.	<i>Santalum album</i> L.*	Santalaceae	India (Andhra Pradesh, Karnataka, Kerala, Tamil Nadu); Indonesia (Maluku, Sumatera, Sulawesi); Sri Lanka; Timor-Leste	VU	A2de	3.1	2018
251.	<i>Isonandra stocksii</i> C.B. Clarke	Sapotaceae	India (Maharashtra, Karnataka, Kerala, Tamil Nadu)	EN	B1+2c	2.3	1998
252.	<i>Isonandra villosa</i> Wight	Sapotaceae	India (Kerala)	EN	B1+2c	2.3	1998
253.	<i>Madhuca balakrishnani</i> E.S.S. Kumar <i>et al.</i> *	Sapotaceae	India (Kerala)	CR	A2c;B1ab(iii))+2ab(iii); D	3.1	2022
254.	<i>Madhuca bourdillonii</i> (Gamble) H.J. Lam*	Sapotaceae	India (Karnataka, Kerala)	EN	A1cd+2c	2.3	1998
255.	<i>Madhuca diplostemon</i> (C.B. Clarke) P.Royen*	Sapotaceae	India (Kerala)	CR	D	3.1	2020
256.	<i>Madhuca insignis</i> (Radlk.) H.J. Lam*	Sapotaceae	India (Karnataka, Kerala)	CR	C2a(i); D	3.1	2019
257.	<i>Palaquium bourdillonii</i> Brandis*	Sapotaceae	India (Tamil Nadu, Kerala)	VU	B1ab(iii)+ 2ab(iii)	3.1	2018
258.	<i>Palaquium ravii</i> Sasidh. & Vink	Sapotaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
259.	<i>Symplocos anamallayana</i> Bedd.	Symplocaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
260.	<i>Symplocos macrocarpa</i> subsp. <i>kanarana</i> (Talbot)Noot.	Symplocaceae	India (Tamil Nadu, Kerala, Karnataka)	VU	B1+2c	2.3	1998
261.	<i>Symplocos nairii</i> A.N. Henry <i>et al.</i>	Symplocaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
262.	<i>Symplocos oligandra</i> Bedd.	Symplocaceae	India (Tamil Nadu, Kerala)	EN	B1+2c	2.3	1998
263.	<i>Cayratia pedata</i> Gangep. *	Vitaceae	Bangladesh; India (West Bengal, Tamil Nadu, Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Karnataka, Kerala, Maharashtra, Meghalaya, Orissa), Myanmar, Sri Lanka	VU	A2cd	3.1	2014
264.	<i>Cayratia pedata</i> var. <i>glabra</i> Gamble	Vitaceae	India (Tamil Nadu, Kerala)	CR	B2ab(ii,iii,v)	3.1	2014
265.	<i>Curcuma coriacea</i> Mangaly & M. Sabu*	Zingiberaceae	India (Kerala)	EN	B1ab(iii)	3.1	2009
266.	<i>Curcuma pseudomontana</i> J. Graham*	Zingiberaceae	India (Maharashtra, Karnataka, Kerala, Tamil Nadu)	VU	A2cd	3.1	2009
267.	<i>Curcuma vama</i> M. Sabu & Mangaly	Zingiberaceae	India (Tamil Nadu, Kerala)	CR	B2b(iii) c(i,ii,iii)	3.1	2018
Gymnosperms							
268.	<i>Cycas annaikalensis</i> Rita Singh & P. Radha*	Cycadaceae	India (Kerala)	CR	B2ab(iii,v); C2a(ii)	3.1	2020
269.	<i>Cycas circinalis</i> L.*	Cycadaceae	India (Karnataka, Kerala, Tamil Nadu)	EN	A2cd+4Acd	3.1	2020
270.	<i>Cycas nathorstii</i> J. Schust. *	Cycadaceae	India (Kerala, Tamil Nadu); Sri Lanka	VU	A2cd+4Acd	3.1	2020
271.	<i>Gnetum contractum</i> Markgr.	Gnetaceae	India (Tamil Nadu, Kerala)	VU	B1ab(iii)	3.1	2009
Pteridophyte							

272.	<i>Sphaeropteris crinita</i> (Hook.) R.M. Tryon	Cyathiaceae	India (Tamil Nadu, Kerala), Sri Lanka	EN	B1ab(iii)+2ab(iii)	3.1	2011
273.	<i>Elaphoglossum nilgircum</i> Krajina ex Sledge	Polypodiaceae	India (Karnataka, Kerala, Tamil Nadu)	CR	C1+2a(i); D	3.1	2024

*Plants Conserving at Jawaharlal Nehru Tropical Botanic Garden and Research Institute.



Figure 1: A. *Syzygium benthamianum*, B. *Syzygium myhendrae*, C. *Salacia oblonga*, D. *Buchanania lanceolata*, E. *Goniothalamus wynadensis*, F. *Eugenia wynadensis*, G. *Syzygium stocksii*, H. *Impatiens parasitica*, I. *Strobilanthes kunthiana*, J. *Knema attenuata* (Photo:S.M.Shareef)

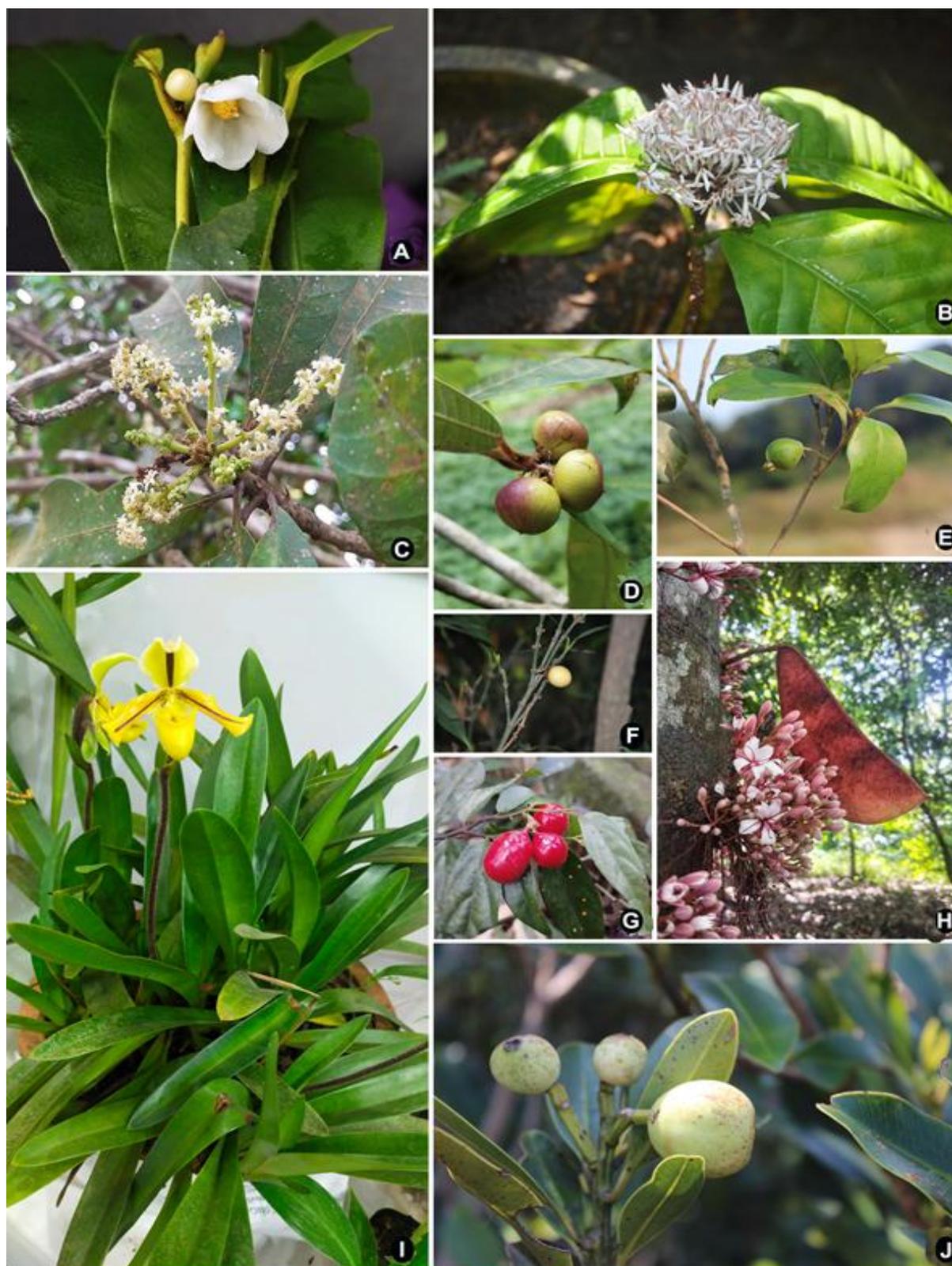


Figure 2: A. *Poecilonueron pauciflorum*, B. *Ixora johnsonii*, C. *Buchanania barberi*, D. *Nothopegia aureofulva*, E. *Eugenia discifera*, F. *Paphiopedilum druryi*, G. *Garcinia wightii*, H. *Popowea beddomeana*, I. *Humboldtia bourdillonii*, J. *Syzygium sasidharanii* (Photo: S.M. Shareef)

RESULTS AND DISCUSSION

The comprehensive checklist of IUCN Red List–threatened plant species of Kerala documents a total

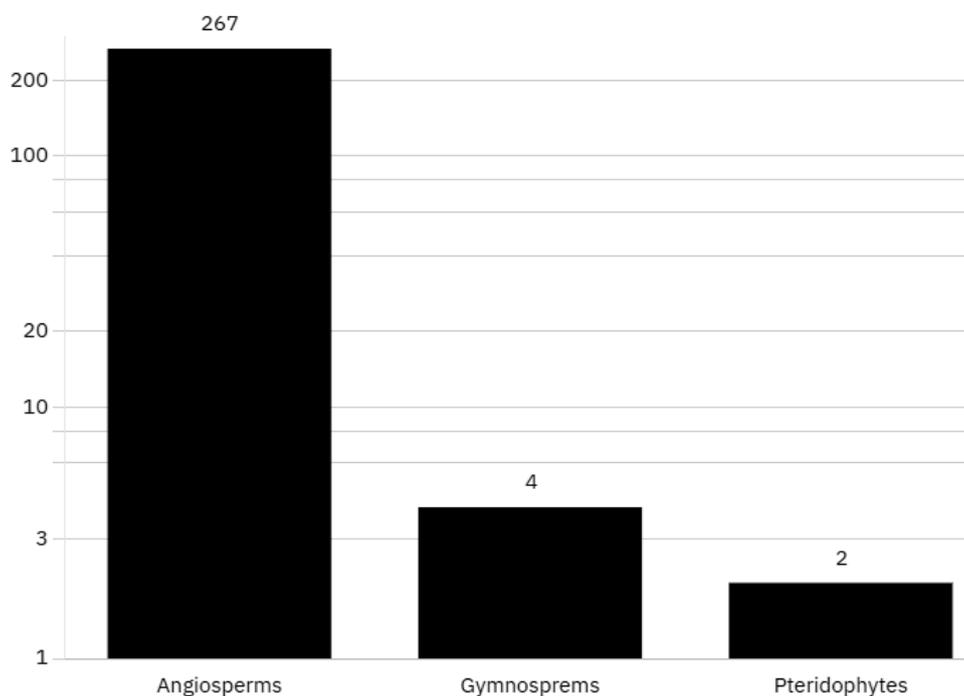
of 273 species, representing 267 angiosperms (Figures 1 and 2), four gymnosperms and two pteridophytes (Table 1; Graph 1). This distribution clearly indicates the overwhelming dominance of

flowering plants among the threatened flora of the state, reflecting both their high species richness and their heightened vulnerability to ongoing anthropogenic pressures and habitat modification. Among angiosperms, the family Lauraceae emerges as the most species-rich in terms of threatened taxa, represented by 6 genera and 34 species. This is followed by Myrtaceae (2 genera and 28 species), Rubiaceae (11 genera and 25 species), Fabaceae (7 genera and 14 species), Dipterocarpaceae (4 genera and 10 species) and Melastomataceae (2 genera and 10 species). The predominance of these families is largely attributable to their ecological significance within the evergreen and semi-evergreen forests of the Western Ghats, where many species exhibit narrow habitat preferences, restricted distributions and low population densities, making them particularly susceptible to extinction. With respect to threat categories, of the 273 species assessed, 45 species are classified as Critically Endangered, 109 species as Endangered, and 118 species as Vulnerable under the IUCN Red List criteria (version 2025-2). The substantial proportion of species in the Critically Endangered and Endangered categories underscores the severity of extinction risk faced by

Kerala's flora and highlights the urgent need for targeted conservation interventions, both *in situ* and *ex situ*. Endemism constitutes a significant component of the threatened flora of Kerala. Of the total 273 species documented, 52 threatened species are exclusively endemic to the state, occurring nowhere else in the world. These taxa are often confined to highly localised habitats within the Western Ghats and are especially vulnerable to habitat degradation, fragmentation and climate-related changes. The high level of endemism among threatened species further emphasises Kerala's global conservation importance and the critical responsibility of the state in safeguarding these unique plant lineages.

Based on the latest IUCN Red List of Threatened Species (version 2025-2), no plant species from the study area are classified under the 'Extinct' category. However, *Euphorbia mayuranathanii* Croizat currently listed as 'Extinct in the Wild' (EW), has an unresolved taxonomic status and is now regarded as a synonym of *Euphorbia antiquorum* L., a widespread species assessed as 'Least Concern' (LC) by the IUCN (POWO, 2026).

Graph 1: Threatened plants in Angiosperms, Gymnosperms and Pteridophytes



CONCLUSION

This study provides the first comprehensive, state-level synthesis of IUCN Red Listed threatened vascular plants of Kerala based on the most recent global assessments (version 2025-2). The documentation of 273 threatened plant species, comprising 267 angiosperms, 4 gymnosperms and 2

pteridophytes, highlights the exceptionally high conservation significance of Kerala within the Western Ghats, one of the world's recognised biodiversity hotspots. The dominance of families such as Lauraceae, Myrtaceae and Rubiaceae among threatened taxa reflects the vulnerability of evergreen and semi-evergreen forest elements of the Western Ghats, where many species are characterised by

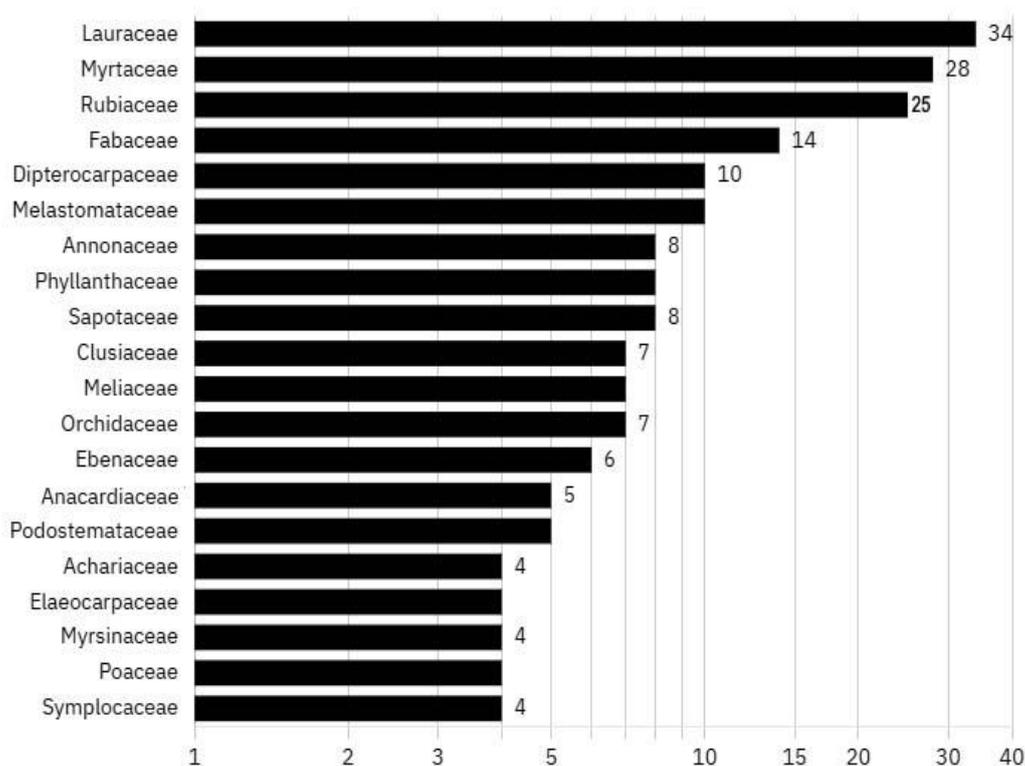
restricted distributions, habitat specificity and small population sizes.

The presence of 45 Critically Endangered, 109 Endangered and 118 Vulnerable species, including 52 species endemic to Kerala, underscores the urgent need for targeted conservation interventions. Many of these taxa are restricted to narrow ecological niches and small, fragmented populations, making them particularly susceptible to ongoing anthropogenic pressures such as land-use change, overexploitation and climate variability. The increasing number of newly described species subsequently assessed as threatened further indicates that extinction risk may be underestimated for poorly known taxa, especially those with limited distributions.

By consolidating updated IUCN Red List information and validating species distributions using

authoritative floristic sources, the present compilation establishes a reliable and current baseline for conservation planning in Kerala. This dataset can support priority setting for *in situ* and *ex situ* conservation, habitat restoration, long-term monitoring and policy formulation at both state and regional levels. Moreover, the study emphasises the need for regular reassessment of plant taxa, strengthened field-based population studies and enhanced integration of taxonomic research with conservation practice. Overall, this work highlights Kerala as a critical centre of threatened plant diversity in India and reinforces the importance of sustained scientific assessment and proactive conservation action to prevent further erosion of its unique and irreplaceable plant heritage.

Graph 2: Distribution of threatened species among Angiosperm families in Kerala



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