

# Geographic distribution pattern of threatened plants of India and steps taken for their conservation

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In spite of its importance in nation-wide conservation planning, comprehensive information on geographic distribution of threatened plants in India is lacking. Even the threat status of these plants is ambiguous and the country's effort to conserve them is not widely known. A critical analysis of these aspects is essential for identifying gaps in threatened plant conservation. Keeping these in view, we present a review of the existing knowledge on geographic distribution pattern of threatened plants of India, their threat status, and conservation action undertaken to recover these species. Using the available data, we unravel patterns of distribution of these threatened plants in different states of India. When ranking of the families was done based on the total number of species under different threat categories, Orchidaceae (644), Fabaceae (185), Poaceae (164), Rubiaceae (103), Asteraceae (88), Euphorbiaceae (72), Asclepiadaceae (62) and Acanthaceae (60) constituted more than half of the total threatened plant species of India. A review on conservation efforts so far undertaken in different parts of the country revealed that the biodiversity-rich phyto-geographic regions such as the Himalayas, North East India, and Andaman and Nicobar Islands had lesser conservation efforts in comparison to the Western

Ghats, Vindhyas and Peninsular regions of India. The skewed distribution of threatened plants in different states did not truly reflect their absolute presence or absence; rather it is the result of incomplete survey because of the difficult geomorphological and associated geo-climatic conditions, tough terrain and remote locations. In addition, the current data on threatened plants suffer from methodological shortcomings such as classification without using the population data that are so crucial in modern day threat classification, and lack of long-term observational data. The review emphasizes the use of modern tools such as ecological niche modelling for population inventory, area of occupancy and extent of occurrence, and trends in population size and regeneration for precise threat classification conforming to globally accepted methods (e.g. IUCN version 3.1). The works undertaken through the support of Department of Biotechnology, GoI for conservation of 156 threatened plant species under different disciplines of conservation biology during the past three decades have also been compiled and reviewed. A successfully tested protocol following an integrated approach for threatened species conservation is recommended for future conservation action.

**Keywords:** Conservation strategy, geographic distribution pattern, threatened plants.

## Introduction

SPECIES distribution is the result of its biogeography, evolution and conservation actions<sup>1,2</sup>. Several theories and hypotheses, viz. the time theory, theory of spatial heterogeneity, completion hypothesis, predation hypothesis, theory of climatic stability and productivity hypothesis have been proposed to explain the spatial distribution pattern of species<sup>3</sup>. All these hypotheses highlight the dominant role of biotic and abiotic factors, including the

anthropogenic influences in governing the distribution of species<sup>4</sup>.

India ranks among the top 10 species-rich nations of the world with a very high degree of endemism having 47,513 plant species that constitutes ~11.4% of global floral diversity<sup>5</sup>. The floral diversity in India is concentrated in the four biodiversity hotspots, viz. the Eastern Himalaya, the Western Ghats, Indo-Burma and Sundaland (Nicobar Island). Angiosperms form the major group with 17,926 species belonging to 2984 genera in 247 families, constituting 7% of the world's known flowering plants<sup>6</sup>. Pteridophytes are represented by 2479 species followed by 1265 bryophytes and 67 species of gymnosperms.

Currently, India is experiencing a series of environmental problems, viz. climate change, habitat modification,

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land-use and land-cover change, environmental pollution, overexploitation of biological resources and alien species invasion<sup>7-10</sup>. Depending on the scale and intensity of the above changes, several species are lost and genetic variability within the species is being eroded. Anthropogenic factors have also played a pivotal role in controlling species distribution and have led to extinction of numerous species, while several others have become threatened<sup>11</sup>.

The International Union for Conservation of Nature (IUCN) devised a comprehensive system of classification that is much objective-oriented and precise than the earlier systems, which helped categorizing species according to the risk of extinction they face<sup>12</sup>. The classification has now helped the conservation planners in prioritizing the efforts and resources in conserving the threatened species in the most effective manner. The pioneering works to enumerate and prioritize the threatened species in India were undertaken during 1980s and 1990s<sup>13,14</sup>. Nayar and Sastry<sup>14</sup> (1987-90) in their seminal work entitled, *Red Data Book of Indian Plants (RDB)* listed 602 threatened vascular plants. Subsequently, the number of threatened plants increased<sup>15</sup> to 1255. In India, 1700 of the 18,043 listed plant species have been reported to be threatened<sup>16</sup>.

Recently, the Conservation Breeding Specialist Group (CBSG) of Species Survival Commission developed an assessment methodology for the medicinal plants known as CAMP (Conservation Assessment and Management Prioritisation), and successfully assigned threat status to several taxa in India. In addition, Environmental Information System (ENVIS) of Ministry of Environment, Forests and Climate Change (MoEF&CC), State Biodiversity Boards and IUCN Red List of Threatened Species have been identifying and assigning threat status to species following different approaches. The trade of species mentioned in the appendices of the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) is prohibited, and the plant species mentioned under Schedule-VI of Wildlife Protection Act, 1972 (WPA) have been accorded adequate protection. Despite all these efforts, threat assessment and conservation actions for threatened plants in India are in a state of flux due to lack of consensus at the national level.

Research on the threatened plants of India with special focus on the identification of factors causing their rarity, reproductive bottleneck, and both demographic and environmental stochasticity leading to the declining populations and eventual extinction can be of great help to policy makers and scientists to prioritize the species and conservation actions. This essentially requires a comprehensive account of the conservation status of threatened plants and their spatial distribution pattern in India. The present review aims to assess the status of research on threatened plants of India, and the past and ongoing conservation efforts in the country. Based on the review and the successful experiences from a pan-Indian pilot project on threatened species conservation sponsored by Depart-

ment of Biotechnology (DBT), Government of India (GoI), the future strategies for conservation action have been suggested.

### Materials and methods

A review of the available literature and datasets on the threatened plants of India was undertaken to assess their geographic distribution pattern and conservation measures. Information related to family-wise distribution of threatened species, and their geographic distribution and conservation status was compiled from the published literature<sup>17-25</sup>, CAMP workshops<sup>26-34</sup> and on-line databases<sup>16,35-39</sup>. The compiled data were examined for errors related to systematics by consulting the database plant list<sup>40</sup>, and the accepted names were subsequently updated. Geographic distribution of the species was updated following on-line databases such as e-flora India<sup>41</sup>, *Encyclopedia of Life*<sup>42</sup>, World Checklist of Selected Plant Families<sup>43</sup>, Flowers of India<sup>44</sup> and India Biodiversity Portal<sup>45</sup>. Threat status assigned to the listed species by various agencies, regulatory instruments, and international treaties such as IUCN, CITES, CAMP, *RDB*<sup>14</sup>, ENVIS, WPA and state biodiversity notifications under The Biological Diversity Act, 2002. The compiled data were examined for inconsistencies in the threat status assigned to the species by CAMP, ENVIS and *RDB*, where the status assigned to a particular species differed among the states. In such cases, we considered only the highest threat category assigned to a particular species. We also compiled information from the official records of DBT, which extensively worked on the conservation of threatened species in India through sponsored projects.

### Results and discussion

#### *Family-wise distribution of threatened species*

We compiled a list of 2704 threatened plant species belonging to 1031 genera and 217 families (Annexure 1 and Box 1). The list includes 2641 angiosperms, 23 gymnosperms and 44 pteridophyte species, and represent ~13% of the estimated vascular plant diversity in India.

Orchids are the most vulnerable group of plants comprising 23% of the total threatened species followed by begonias (4%). Orchids and begonias are highly specific to their host trees and special habitats respectively. Anthropogenic disturbances that lead to the loss of host trees and specific habitats would affect these plants.

#### *Geographic distribution pattern of threatened plants*

Taxonomic richness of threatened plants across the family, genus and species was highest in Chhattisgarh followed

**Box 1.** Distribution of threatened plant species under different taxa

The family Orchidaceae was the most species-rich with 624 species, followed by Fabaceae (185), Poaceae (164) and Rubiaceae (103). Some of the co-dominant families were Asteraceae (88), Euphorbiaceae (70), Asclepiadaceae (62), Acanthaceae (60), Cyperaceae (55), Apiaceae (52), Lamiaceae (38), Ranunculaceae (35), Zingiberaceae (35), Araceae (33), Annonaceae (29), Commelinaceae (29), Lauraceae (28), Liliaceae (27), Balsaminaceae (25), Arecaceae (23), Malvaceae (22), Scrophulariaceae (20), Apocynaceae (19), Begoniaceae (19), Myrtaceae (19), Clusiaceae (17), Convolvulaceae (17), Eriocaulaceae (17), Gentianaceae (17), Berberidaceae (15), Boraginaceae (15), Cyatheaceae (14), Meliaceae (15) and Rutaceae (15).

One hundred and sixteen families had only 2–14 species. These are Caryophyllaceae, Celastraceae, Mimosaceae and Rosaceae with 14 species each; Anacardiaceae, Asparagaceae and Oleaceae with 13 species each; Capparaceae, Cucurbitaceae and Urticaceae with 12 species each; Dipterocarpaceae, Melastomataceae, Menispermaceae, Myrsinaceae, Sapotaceae, Sterculiaceae and Vitaceae with 11 species each; Elaeocarpaceae, Ericaceae, Magnoliaceae, Piperaceae and Solanaceae with 10 species each; Moraceae, Polygonaceae, Primulaceae and Thelypteridaceae with nine species each; Combretaceae, Dioscoreaceae, Ebenaceae, Flacourtiaceae and Lythraceae with eight species each; Brassicaceae, Campanulaceae and Podostemonaceae with seven species each; Amaranthaceae, Caprifoliaceae, Crassulaceae, Cycadaceae, Gesneriaceae, Papaveraceae, Rhizophoraceae, Verbanaceae and Violaceae with six species each; Aceraceae, Araliaceae, Burseraceae, Lentibulariaceae, Loganiaceae, Malpighiaceae, Myristicaceae, Rhamnaceae and Symplocaceae with five species each; Alliaceae, Aponogonaceae, Aquifoliaceae, Aristolochiaceae, Bignoniaceae, Caesalpinaceae, Droseraceae, Hypericaceae, Icacinaceae, Leeaceae, Ophioglossaceae, Polypodiaceae, Sapindaceae, Smilacaceae, Taxaceae, Theaceae and Thymelaeaceae with four species each; Amaryllidaceae, Athyriaceae, Balanophoraceae, Cupressaceae, Elaeagnaceae, Elaphoglossaceae, Gnetaceae, Hydrocharitaceae, Marantaceae, Plumbaginaceae, Polygalaceae, Potamogetonaceae, Saxifragaceae and Tiliaceae with three species each; Agavaceae, Aizoaceae, Alismataceae, Chenopodiaceae, Chrysobalanaceae, Colchicaceae, Ephedraceae, Iridaceae, Juncaceae, Lemnaceae, Linaceae, Lindsaeaceae, Loranthaceae, Olacaceae, Onagraceae, Orobanchaceae, Pandanaceae, Phyllanthaceae, Pinaceae, Pittosporaceae, Plantaginaceae, Podocarpaceae, Salvadoraceae, Santalaceae, Schisandraceae, Sonneratiaceae, Stemonaceae, Stylidiaceae, Styracaceae, Tamaricaceae, Ulmaceae, Valerianaceae and Zygophyllaceae with two species each.

Sixty-seven families were represented by one species each. These are Acoraceae, Actinidiaceae, Adiantaceae, Betulaceae, Bixaceae, Bombacaceae, Bonnetiaceae, Burmanniaceae, Callitrichaceae, Cephalotaxaceae, Christenseniaceae, Cleomaceae, Convallariaceae, Cuscutaceae, Datisceae, Dennstaedtiaceae, Dicksoniaceae, Dicranopteridaceae, Dilleniaceae, Elatinaceae, Erythralaceae, Flagellariaceae, Fumariaceae, Geraniaceae, Hamamelidaceae, Hernandiaceae, Hippocrateaceae, Hyacinthaceae, Hymenophyllaceae, Hypoxidaceae, Icacinateae, Illiciaceae, Isoetaceae, Ixonanthaceae, Lardizabalaceae, Linderniaceae, Lobeliaceae, Lycopodiaceae, Marattiaceae, Mitrastemonaceae, Molluginaceae, Molluginaceae, Moringaceae, Nepenthaceae, Neuradaceae, Nyctaginaceae, Nymphaeaceae, Ochnaceae, Paeoniaceae, Passifloraceae, Pedaliaceae, Pentaphragaceae, Podostemaceae, Portulacaceae, Psilotaceae, Putranjivaceae, Rafflesiaceae, Salicaceae, Simaroubaceae, Staphyleaceae, Symphoremataceae, Trilliaceae, Trochodendraceae, Turneraceae, Utriculariaceae, Vahliaceae, Viscaceae and Xyridaceae.

The genus *Bulbophyllum* (96) had the highest number of threatened species followed by *Dendrobium* (92), *Habenaria* (37) and *Coelogyne* (33). Other genera with high number of threatened species are *Ceropegia* (31), *Crotalaria* (29), *Euphorbia* (27), *Impatiens* (24), *Oberonia* (24), *Cymbidium* (22), *Calanthe* (19), *Begonia* (19), *Carex* (18), *Ophiorrhiza* (18), *Eriocaulon* (16), *Liparis* (15), *Aconitum* (14), *Eulophia* (14), *Garcinia* (13), *Vanda* (13), *Berberis* (12), *Cinnamomum* (12), *Fimbristylis* (12), *Hedyotis* (12), *Syzygium* (12), *Hedychium* (11), *Aerides* (10), *Dimeria* (10), *Elaeocarpus* (10), *Indigofera* (10), *Jasminum* (10), *Magnolia* (10), *Nervilia* (10), *Phalaenopsis* (10), *Pimpinella* (10), *Rhododendron* (10) and *Saussurea* (10). Four hundred and eight genera were represented by 2–9 species, while 582 genera were represented by one species each.

by Tamil Nadu, Kerala, Karnataka, Meghalaya, Maharashtra, Sikkim, Arunachal Pradesh, Odisha, Uttarakhand, Assam, Jammu and Kashmir, West Bengal, Himachal Pradesh, Manipur, Andhra Pradesh, Nagaland, Madhya Pradesh, Bihar, Andaman and Nicobar Islands, Gujarat, Uttar Pradesh, Rajasthan, Haryana, Jharkhand, Mizoram, Tripura, Goa, Delhi, Punjab, and Daman and Diu (Table 1).

Less than 1% of the threatened species had wide distribution range as indicated by their presence in 10–23 states of India. These are *Bulbophyllum careyanum*, *Embelia tsjeriam-cottam*, *Euphorbia lacei*, *Euphorbia*

*neriifolia*, *Euphorbia prostrata*, *Gloriosa superba*, *Oroxylum indicum*, *Rauvolfia serpentina* and *Rhus chinensis*. About 3% of the species had intermediate distribution range covering 6–9 states, and 35% of the species had narrow geographical range covering 2–5 states. About 62% of the listed threatened plants of India had restricted distribution range, i.e. they were reported from only one state.

The state-wise distribution of threatened species revealed an extremely unequal pattern. Chhattisgarh had the highest number (506) of threatened species followed by Tamil Nadu (431) and Kerala (425). Assam,

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**Table 1.** Geographical distribution pattern of threatened plants under different taxa

State	Geographical area (km <sup>2</sup> × 1000)	Forest cover (km <sup>2</sup> × 1000)	Family	Genus	Species
Andaman and Nicobar Islands	8.249	6.93	28	62	83
Andhra Pradesh	275.045	44.637	45	93	111
Arunachal Pradesh	83.743	68.045	60	122	229
Assam	78.438	27.714	51	104	195
Bihar	94.163	5.72	29	74	85
Chhattisgarh	135.192	56.448	103	331	506
Daman and Diu	0.111	0.006	4	5	5
Delhi	1.483	0.111	11	17	21
Goa	3.702	2.095	10	19	23
Gujarat	196.244	15.152	33	66	81
Haryana	44.212	1.754	31	50	55
Himachal Pradesh	55.673	14.36	50	88	116
Jammu and Kashmir	222.236	21.237	55	117	172
Jharkhand	79.716	22.637	16	44	47
Karnataka	191.791	36.991	82	215	356
Kerala	38.852	15.56	89	234	425
Madhya Pradesh	308.252	77.265	49	80	89
Maharashtra	307.713	47.482	59	150	262
Manipur	22.327	16.926	27	48	113
Meghalaya	22.429	15.584	63	128	284
Mizoram	21.081	17.494	11	21	47
Nagaland	16.579	13.345	18	39	95
Odisha	155.707	48.838	69	164	211
Punjab	50.362	2.432	12	12	15
Rajasthan	342.239	16.367	35	52	56
Sikkim	7.096	3.193	43	113	262
Tamil Nadu	130.06	21.482	93	226	431
Tripura	10.486	7.065	14	20	25
Uttar Pradesh	240.928	13.746	28	47	73
Uttarakhand	53.483	23.938	59	127	196
West Bengal	88.752	10.693	50	101	153

Arunachal Pradesh, Nagaland, Meghalaya, Manipur, Mizoram, Tripura and Sikkim being the part of the Eastern Himalaya and Indo-Burma biodiversity hotspots are expected to harbour a larger number of threatened species than the other states. However, these states have been less surveyed and several areas remain unexplored. A recent study<sup>46</sup> reported the discovery of 83 new species of plants from Arunachal Pradesh, Assam and Sikkim between 2009 and 2014, indicating the lack of sufficient survey efforts in these states. Therefore, it appears that the number of threatened species in a particular state so far reported is not the true scenario representing the absolute presence/absence of threatened species; rather it is a function of survey efforts, area under effective botanical exploration, and above all the threat perception of the researchers.

### Species–area relationship

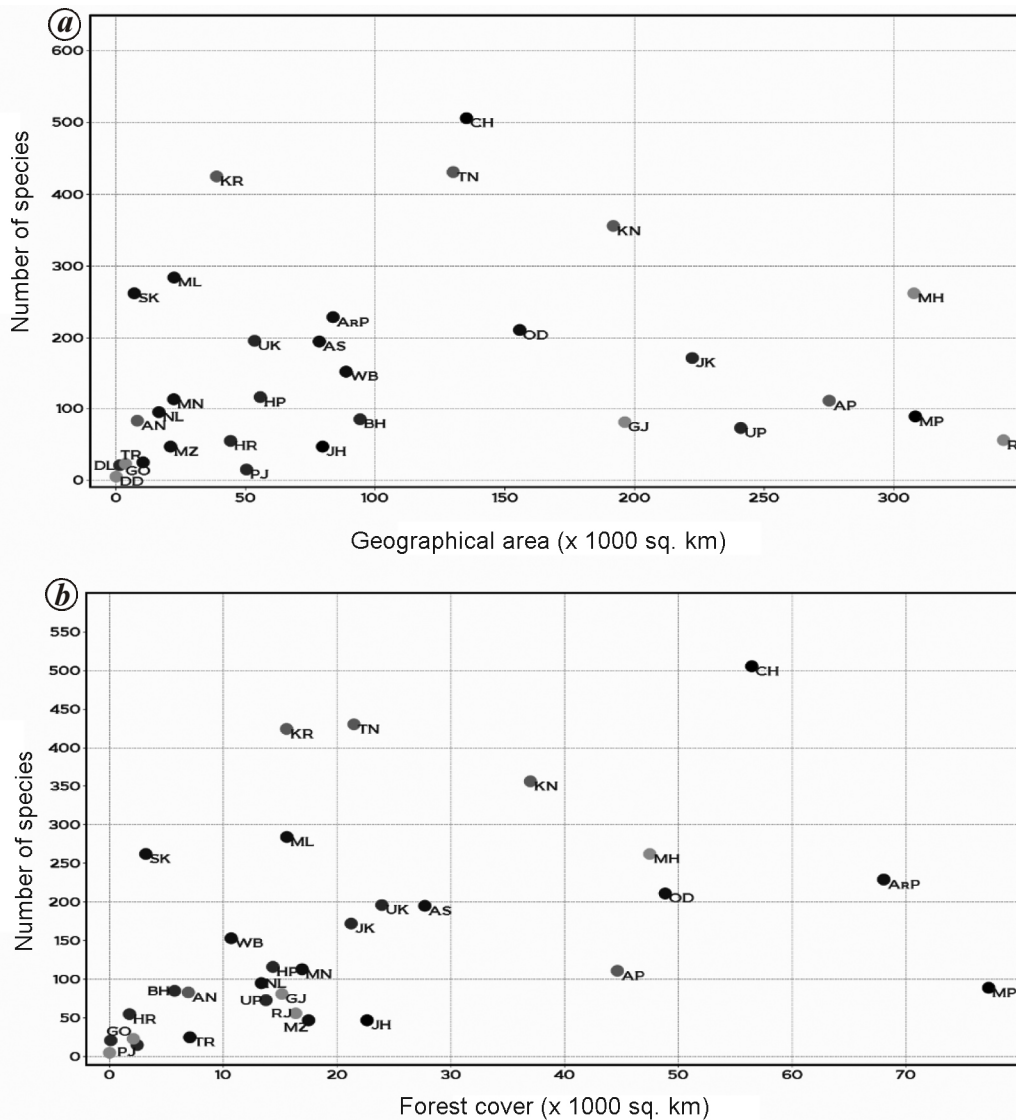
Our data on the number of threatened species vis-à-vis geographic area did not support the species–area hypothesis for biodiversity (Figure 1 a), which presumes that larger areas would harbour more species compared to

smaller areas<sup>47</sup>. Even the threatened species richness did not have a significant correlation with forest area (Figure 1 b).

### Skewed threat assessments among Indian states

Analysis of the data on threatened species in different states by different agencies revealed inconsistencies in threat assessments (Figure 2). RDB, NBA, ENVIS, CAMP and IUCN reported most threatened species from Tamil Nadu, Kerala and Karnataka in southern India. However, species listed under CITES and Schedule-VI of WPA were higher in Arunachal Pradesh, Assam, Meghalaya and Sikkim in the northeastern region of India than the rest of the country.

The state with the highest number of threatened species according to the IUCN classification was Tamil Nadu (116), followed by Kerala (113). Other states with relatively large number of species under IUCN classification were Karnataka (82) and Chattisgarh (81). The states with relatively large number of CITES classified species were, Sikkim (197), Meghalaya (180), Arunachal Pradesh (145) and Assam (118). The states with relatively high



**Figure 1.** Relationship between species richness and geographical area (a), as well as species richness and forest area (b). The dots with alphabets represent the Indian states: AN, Andaman and Nicobar Islands; AP, Andhra Pradesh; ArP, Arunachal Pradesh; AS, Assam; BH, Bihar; CH, Chhattisgarh; DD, Daman and Diu; DL, Delhi; GO, Goa; GJ, Gujarat; HR, Haryana; HP, Himachal Pradesh; JK, Jammu and Kashmir; JH, Jharkhand; KN, Karnataka; KR, Kerala; MP, Madhya Pradesh; MH, Maharashtra; MN, Manipur; ML, Meghalaya; MZ, Mizoram; NL, Nagaland; OD, Odisha; PJ, Punjab; RJ, Rajasthan; SK, Sikkim; TN, Tamil Nadu; TR, Tripura; UP, Uttar Pradesh; UK, Uttarakhand; WB, West Bengal.

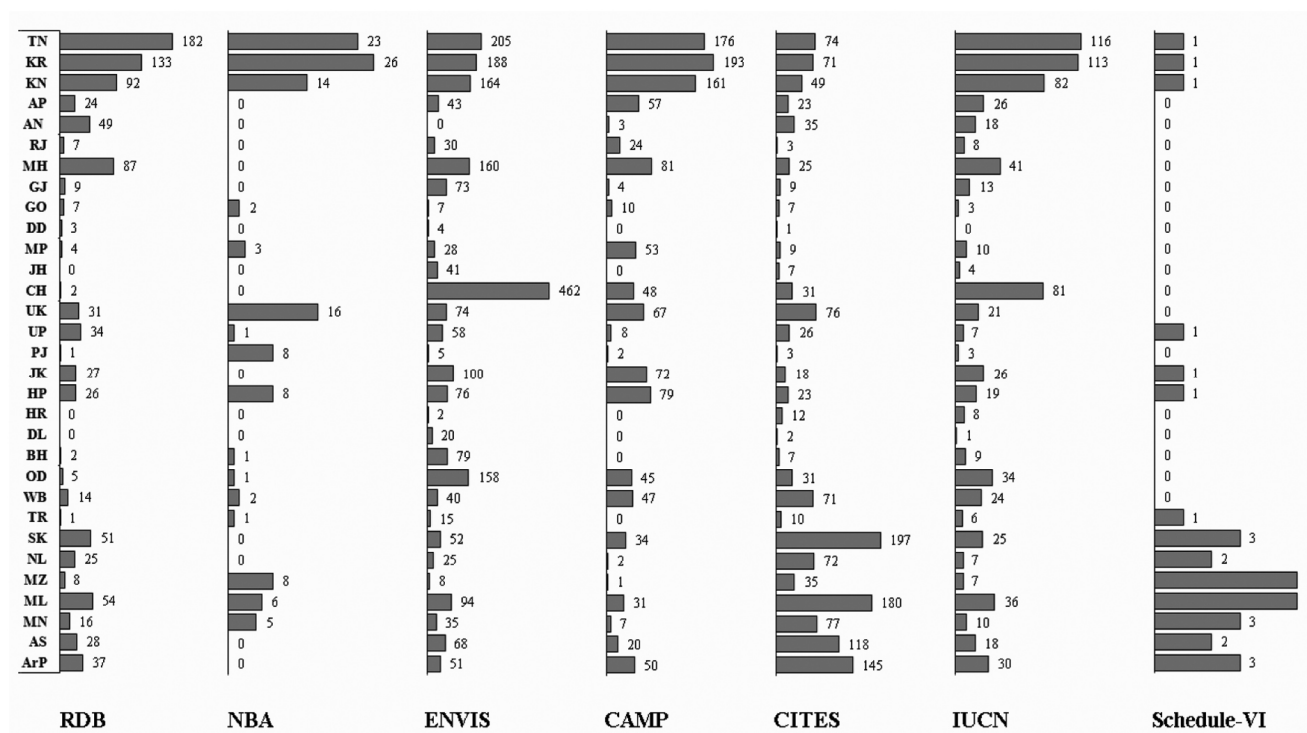
number of CAMP classified species were Kerala (193), Tamil Nadu (176) and Karnataka (161). The states with large number species listed in ENVIS database were Chhattisgarh (462), Tamil Nadu (205), Kerala (188), Karnataka (164), Maharashtra (160), Odisha (158), and Jammu and Kashmir (100). The states with highest number of species listed in the Schedule-VI of WPA were Meghalaya and Mizoram with five species each, followed by Sikkim, Arunachal Pradesh and Manipur each with three species, Assam and Nagaland with two species each, and Tamil Nadu, Kerala, Karnataka, Uttar Pradesh, Jammu and Kashmir, Himachal Pradesh and Tripura, each with one species. The state with a highest number of species listed by NBA was Kerala (26) followed by Tamil

Nadu (23), Uttarakhand (16) and Karnataka (14). The state with highest number species listed in *RDB* was Tamil Nadu (182), followed by Kerala (133), Karnataka (92) and Maharashtra (87).

#### *Inconsistencies in threat classification*

The existing literature on threatened plants of India is inconsistent on the threat status of the species. This is primarily due to biasness on the part of the researchers in terms of threat perception, method adopted, limitations in survey, and site-specific demographic and environmental stochasticity. In addition, conservation agencies follow a

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**Figure 2.** State-wise distribution pattern of threatened species classified by different agencies, viz. *RDB* – Red Data Book of Indian Plants, *NBA* – National Biodiversity Authority, *ENVIS* – Environmental Information System, *CAMP* – Conservation Assessment and Management Plan, *CITES* – Convention on International Trade in Endangered Species of Wild Fauna and Flora, *IUCN* – International Union for Conservation of Nature, *Schedule VI* – Wildlife Protection Act (1972). Values beside the bars represent the number of species. In the case of *IUCN*, the number of species listed in the Catalogue of Life (COL) has not been included in the figure. The alphabets represent the Indian states, as in Figure 1.

**Table 2.** Number of species under different threat categories in India as reported by various agencies

<i>IUCN</i>	<i>RDB</i>	<i>CAMP</i>
Extinct – 5	Extinct – 1	Extinct – 2
Critically endangered – 39	Potentially extinct – 61	Critically endangered – 104
Endangered – 96	Endangered – 118	Endangered – 191
Vulnerable – 79	Vulnerable – 109	Vulnerable – 148
Near-threatened – 19	Rare – 237	Near-threatened – 36
Data-deficient – 12	Indeterminate – 72	Data deficient – 10
Least concern – 178	Insufficiently known – 2	Least concern – 2
Not assessed – 45	Data-deficient – 2	Not evaluated – 4
Total – 473	Total – 602	Total – 497

<i>ENVIS</i>	<i>CITES</i>	<i>NBA</i>
Extinct – 3	Appendix I – 11	Endangered – 106
Potentially extinct – 61	Appendix II – 532	
Critically endangered – 9	Appendix III – 5	
Endangered – 245	Total – 549	
Vulnerable – 105		<i>Schedule VI</i>
Indeterminate – 237		Endangered – 13
Rare – 958		
Rare, endangered, threatened – 183		
Total – 1801		

particular protocol and threat classification system based on their own mandate, which is often a mere compilation without applying rigorous scientific assessment. An outcome of this is that the highest number of the threatened

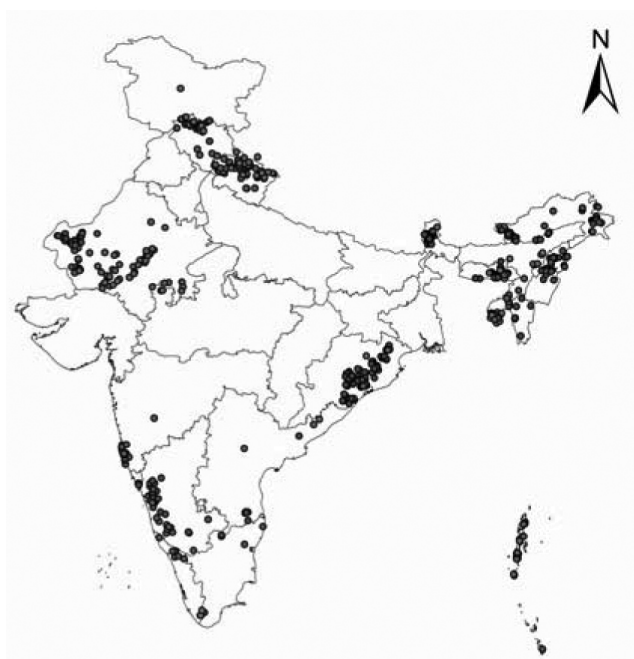
plants has been reported by *ENVIS* (1803) followed by *RDB* (601), *CITES* (572), *CAMP* (494), *IUCN* (473), *NBA* (109) and *Schedule-VI* of *WPA* (13) (Table 2 and Figure 2).

### Unlisted threatened species

Based on unpublished field data and long-term observations by experienced field biologists, several species are threatened although not yet placed under the threatened category. On the other hand, the population data collected for several species revealed that many of them do not fall under any threatened category. This warrants a special effort to reclassify the threatened species based on extensive field survey, collection of population data, and adopting a more precise threat classification system such as IUCN version 3.1.

### Conservation action for threatened species of India

Traditionally, community conserved areas throughout the country such as sacred groves and other community-based protected areas have been providing *in situ* conservation opportunities for the threatened species. However, under GoI initiative, prioritization of threatened species and conservation actions are largely centred on flagship faunal species. These include *in situ* conservation measures, e.g. delineation and safeguarding of protected areas such as biosphere reserves, national parks, wildlife sanctuaries, and reserved/protected forests, and large-scale habitat protection for threatened faunal species such as snow leopard, musk deer, elephant and tiger. The important *ex situ* conservation measures include captive breeding for several mammals. However, very few successful



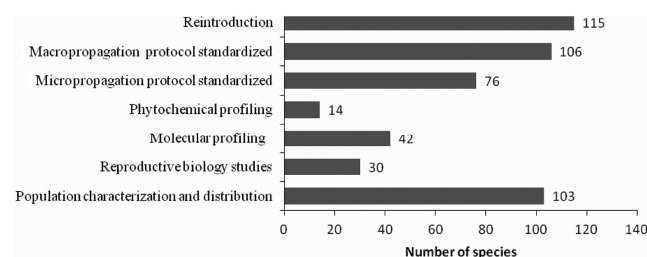
**Figure 3.** Conservation actions for 100 threatened species undertaken by the Department of Biotechnology in different parts of India.

case studies/initiatives are available for threatened plant species of India, although under umbrella species conservation programmes targeting big mammals, threatened plants get conserved. A few *in situ* conservation measures for plant groups are those of Orchid Sanctuary at Sessa in Arunachal Pradesh, and Rhododendron Sanctuary at Singba in Sikkim. Field germplasm banks and institutional botanic gardens are the only means of *ex situ* conservation of threatened plant species. Such programmes generally focus on *ex situ* conservation of medicinally and economically important plants, and on-farm conservation of agricultural crops. All these activities are largely mentored and executed by the Ministry of Environment, Forests and Climate Change, and Ministry of Agriculture, GoI.

DBT has undertaken several plant species-specific recovery programmes targeting 156 highly threatened species of the country during the past three decades. These species belong to 101 genera and 64 families, and comprise of 50 herbs, 42 trees, 24 orchids, 14 shrubs, 14 climbers, 3 bamboos, 3 palms, 3 rattans, 2 cycads, and 1 tree fern (Box 2). One of the most important mega network programmes of DBT entitled, 'Preventing extinction and improving the conservation status of threatened plants through application of biotechnological tools' was initiated during 2012 that successfully conserved 100 threatened species of India (Figure 3). This programme took an integrated approach for species conservation such as resolving the taxonomic dispute, preparing herbarium records, establishing field germplasm bank, population characterization, distribution mapping, reclassification of threat status, reproductive biology, molecular characterization, bioactive compound profiling, standardization of micropropagation and macropropagation protocols and multiplication, and reintroduction in natural habitats (Figure 4).

### Conclusion

The present review reveals that survey and threat assessment of threatened plants in India are limited to specific geographical regions. Species-specific conservation plan, fundamental to recovery strategy is completely missing.



**Figure 4.** Number of threatened species covered under different conservation actions during the past three decades.

**Box 2.** Studies on various aspects of threatened species conservation under the Department of Biotechnology, Government of India in the last decade

**I. Population characterization and distribution mapping**

*Abutilon ranadei, Acer hookeri, Aconitum balfourii, Aconitum ferox, Aconitum heterophyllum, Aconitum hookeri, Aconitum nagarum, Aconitum naviculare, Adhatoda beddomei, Amentotaxus assamica, Angelica glauca, Angiopteris evecta, Anogeisus sericea, Aquilegia nivalis, Arnebia euchroma, Artemisia amygdalina, Begonia satrapis, Bentinckia nicobarica, Bhesa robusta, Brucea mollis, Calamus acanthospathus, Calamus inermis, Calamus nambariensis, Calligonum polygonoides, Carralluma edulis, Ceropogia bulbosa, Cinnamomum cacharensis, Commiphora wightii, Coptis teeta, Corydalis cashmeriana, Crepidium acuminatum, Cyathea spinulosa, Cycas beddomei, Cycas sphaerica, Dactylorhiza hatagirea, Dinochloa andamanica, Dipcadi concanense, Dipcadi goaense, Dipterocarpus bourdillonii, Dipterocarpus gracilis, Elaeocarpus blascoi, Elaeocarpus sphaericus, Elaeocarpus venustus, Embelia floribunda, Embelia ribes, Ephedra foliate, Ephedra gerardiana, Erinocarpus nimmonii, Glossonema varians, Gymnocladus assamicus, Gynocardia odorata, Humboldtia bourdillonii, Hydnocarpus kurzii, Hypericum gaitii, Ilex embelloides, Ilex khasiana, Ilex venulosa, Impatiens clavata, Impatiens talbotii, Kayea assamica, Kingiodendron pinnatum, Lagerstroemia minuticarpa, Lasiococca comberi, Liliium polyphyllum, Madhuca insignis, Malaxis muscifera, Meconopsis aculeta, Memecylon subcordatum, Myristica malabarica, Nothopogia aureo-fulva, Panax assamicus, Panax bipinnatifidus, Panax pseudoginseng, Panax wangianus, Paphiopedilum spicerianum, Paris polyphylla, Phoenix rupicola, Phyllanthus talbotii, Picrorhiza kurrooa, Piper haridasanii, Piper lonchites, Pittosporum eriocarpum, Podophyllum hexandrum, Polyalthia tirunelveliense, Pseudoglochidion anomalayanum, Rheum australe, Rheum webbianum, Rhododendron leptocarpum, Rhododendron macabeum, Rhododendron wattii, Rhopaloblaste augusta, Schizostachyum kurzii, Semecarpus kathalekanensis, Skimmia anquetilia, Skimmia laureola, Swertia chirayita, Syzygium gambleanum, Syzygium rama-varmae, Trichopus zeylanicus, Vanda bicolor, Vanda thwaitisii, Vanda wightii, Vanilla pilifera.*

**II. Reproductive biology studies for identifying regeneration bottlenecks**

*Abutilon ranadei, Aconitum heterophyllum, Aconitum nagarum, Angelica glauca, Aquilegia nivalis, Artemisia amygdalina, Ceropogia fantastica, Corydalis cashmeriana, Crepidium acuminatum, Dipcadi concanense, Dipcadi goaense, Dipterocarpus bourdillonii, Elaeocarpus blascoi, Ephedra gerardiana, Erinocarpus nimmonii, Eulophia cullenii, Hubbardia heptaneuron, Humboldtia bourdillonii, Impatiens clavata, Impatiens talbotii, Kingiodendron pinnatum, Lagerstroemia minuticarpa, Liliium polyphyllum, Memecylon subcordatum, Paris polyphylla, Podophyllum hexandrum, Polyalthia tirunelveliense, Rheum webbianum, Rhodiola imbricate, Skimmia laureola.*

**III. Molecular profiling**

*Abutilon ranadei, Aconitum heterophyllum, Adhatoda beddomei, Amentotaxus assamica, Ceropogia fantastica, Coptis teeta, Coscinium fenestratum, Crepidium acuminatum, Cycas beddomei, Dialium travancoricum, Dipcadi concanense, Dipcadi goaense, Elaeocarpus venustus, Embelia floribunda, Embelia ribes, Erinocarpus nimmonii, Gymnocladus assamicus, Hubbardia heptaneuron, Hypericum gaitii, Ilex embelloides, Ilex khasiana, Ilex venulosa, Impatiens clavata, Impatiens talbotii, Madhuca insignis, Malaxis wallichii, Memecylon subcordatum, Myristica malabarica, Nardostachys grandiflora, Nothopogia aureo-fulva, Nymphaea tetragona, Panax assamicus, Panax bipinnatifidus, Panax pseudoginseng, Panax wangianus, Paphiopedilum druryi, Phyllanthus talbotii, Poeciloneuron pauciflorum, Polyalthia tirunelveliense, Pseudoglochidion anomalayanum, Semecarpus kathalekanensis.*

**IV. Phytochemical profiling for species conservation**

*Aconitum heterophyllum, Angelica glauca, Begonia satrapis, Crepidium acuminatum, Cycas sphaerica, Hypericum gaitii, Lasiococca comberi, Madhuca insignis, Panax assamicus, Panax bipinnatifidus, Panax pseudoginseng, Panax wangianus, Syzygium gambleanum, Syzygium rama-varmae.*

**V. Micropropagation protocol standardized**

*Abutilon ranadei, Aconitum nagarum, Amentotaxus assamica, Angelica glauca, Aquilaria malaccensis, Arachnis labrosa, Bambusa nagalandiana, Brucea mollis, Calanthe wightii, Ceropogia anantii, Ceropogia anjanerica, Ceropogia attenuate, Ceropogia evansii, Ceropogia fantastica, Ceropogia huberi, Ceropogia jainii, Ceropogia media, Ceropogia mohanramii, Ceropogia noorjahaniae, Ceropogia panchganiensis, Ceropogia sahyadrica, Ceropogia santapau, Ceropogia spiralis, Ceropogia vincifolia, Cleisostoma racimeferum, Coelogyne hitendrae, Coptis teeta, Coscinium fenestratum, Crepidium acuminatum, Cyathea spinulosa, Cymbidium hookerianum, Dactylorhiza hatagirea, Dendrobium chrysotoxum, Dipcadi goaense, Elaeocarpus blascoi, Elaeocarpus venustus, Ephedra gerardiana, Erinocarpus nimmonii, Excoecaria agallocha, Hubbardia heptaneuron, Hypericum gaitii, Kingiodendron pinnatum, Liliium polyphyllum, Madhuca insignis, Malaxis wallichii, Mantistias pathulata, Mantistias wengeri, Meconopsis aculeta, Memecylon subcordatum, Nardostachys grandiflora, Nepenthes khasiana, Ormosia robusta, Panax assamicus, Panax bipinnatifidus, Panax pseudoginseng, Panax wangianus, Paphiopedilum druryi, Paphiopedilum spicerianum, Paphiopedilum venustum, Phoenix rupicola, Phyllanthus talbotii, Picrorhiza*

(Contd)



*kurrooa*, *Pittosporum eriocarpum*, *Podophyllum hexandrum*, *Polyalthia tirunelveliense*, *Pseudoglochidion anamalayanum*, *Renanthera imschootiana*, *Rhododendron leptocarpum*, *Rhododendron macabeanum*, *Rhododendron wattii*, *Syzygium gambleanum*, *Syzygium rama-varmae*, *Vanda coerulea*, *Vanda bicolor*, *Xylocarpus granatum*, *Xylocarpus mekongensis*.

#### VI. Macro-propagation protocol standardized

*Abutilon ranadei*, *Acer hookeri*, *Aconitum balfourii*, *Aconitum ferox*, *Aconitum heterophyllum*, *Aconitum hookeri*, *Aconitum nagarum*, *Aconitum naviculare*, *Adhatoda beddomei*, *Amentotaxus assamica*, *Angelica glauca*, *Angiopteris evecta*, *Anogeissus sericea*, *Aquilaria malaccensis*, *Aquilegia nivalis*, *Arnebia euchroma*, *Artemisia amygdalina*, *Bambusa nagalandiana*, *Begonia satrapis*, *Bentinckia nicobarica*, *Bhesa robusta*, *Brucea mollis*, *Calamus acanthospathus*, *Calamus inermis*, *Calamus nambariensis*, *Calligonum polygonoides*, *Caralluma edulis*, *Ceropegia bulbosa*, *Ceropegia fantastica*, *Cinnamomum cacharensis*, *Commiphora wightii*, *Coptis teeta*, *Corydalis cashmeriana*, *Cosciniun fenestratum*, *Crepidium acuminatum*, *Cyathea spinulosa*, *Cycas beddomei*, *Cycas sphaerica*, *Dactylorhiza hatagirea*, *Dinochloa andamanica*, *Dipcadi concanense*, *Dipcadi erythraeum*, *Dipcadi goaense*, *Dipcadi saxorum*, *Dipterocarpus bourdillonii*, *Dipterocarpus gracilis*, *Elaeocarpus blascoi*, *Elaeocarpus sphaericus*, *Embelia floribunda*, *Embelia ribes*, *Ephedra foliate*, *Ephedra gerardiana*, *Erinocarpus nimmonii*, *Eulophia cullenii*, *Excoecaria gallocha*, *Gentiana kurrooa*, *Glossonema varians*, *Gymnocladus assamicus*, *Gynocardia odorata*, *Hubbardia heptaneuron*, *Humboldtia bourdillonii*, *Hydnocarpus kurzii*, *Hypericum gaitii*, *Ilex embelloides*, *Ilex khasiana*, *Ilex venulosa*, *Impatiens clavata*, *Impatiens talbotii*, *Kayea assamica*, *Kingiodendron pinatum*, *Lasiococca comberi*, *Lilium polyphyllum*, *Malaxis muscifera*, *Memecylon subcordatum*, *Paphiopedilum fairrieianum*, *Paphiopedilum hirsutissimum*, *Paphiopedilum insigne*, *Paphiopedilum spicerianum*, *Paris polyphylla*, *Phoenix rupicola*, *Phyllanthus talbotii*, *Piper griffithii*, *Piper haridasanii*, *Piper lonchites*, *Pittosporum eriocarpum*, *Podophyllum hexandrum*, *Poeciloneuron pauciflorum*, *Polyalthia tirunelveliense*, *Pseudoglochidion anamalayanum*, *Rheum austral*, *Rhopaloblaste augusta*, *Schizostachyum kurzii*, *Semecarpus kathalekanensis*, *Skimmia anquetilia*, *Skimmia laureola*, *Stereospermum tetragonum*, *Swertia chirayita*, *Syzygium gambleanum*, *Syzygium rama-varmae*, *Trichopus zeylanicus*, *Vanda bicolor*, *Vanda thwaitisii*, *Vanda wightii*, *Vanilla ptilifera*, *Xylocarpus granatum*, *Xylocarpus mekongensis*.

#### VII. Reintroduction undertaken

*Abutilon ranadei*, *Acer hookeri*, *Aconitum balfourii*, *Aconitum ferox*, *Aconitum heterophyllum*, *Aconitum hookeri*, *Aconitum nagarum*, *Aconitum naviculare*, *Adhatoda beddomei*, *Angelica glauca*, *Angiopteris evecta*, *Anogeissus sericea*, *Aquilaria malaccensis*, *Aquilegia nivalis*, *Arnebia euchroma*, *Artemisia amygdalina*, *Bambusa nagalandiana*, *Begonia satrapis*, *Bhesa robusta*, *Brucea mollis*, *Calamus acanthospathus*, *Calamus nambariensis*, *Calligonum polygonoides*, *Caralluma edulis*, *Ceropegia anantii*, *Ceropegia anjanerica*, *Ceropegia attenuate*, *Ceropegia bulbosa*, *Ceropegia evansii*, *Ceropegia fantastica*, *Ceropegia huberi*, *Ceropegia jainii*, *Ceropegia media*, *Ceropegia mohanramii*, *Ceropegia noorjahaniae*, *Ceropegia panchganiensis*, *Ceropegia sahyadrica*, *Ceropegia santapau*, *Ceropegia spiralis*, *Ceropegia vincifolia*, *Commiphora wightii*, *Coptis teeta*, *Corydalis cashmeriana*, *Cosciniun fenestratum*, *Crepidium acuminatum*, *Cyathea spinulosa*, *Cycas beddomei*, *Cycas sphaerica*, *Dactylorhiza hatagirea*, *Dialium travancoricum*, *Dinochloa andamanica*, *Dipcadi concanense*, *Dipcadi erythraeum*, *Dipcadi goaense*, *Dipterocarpus bourdillonii*, *Dipterocarpus gracilis*, *Elaeocarpus sphaericus*, *Embelia ribes*, *Ephedra foliate*, *Ephedra gerardiana*, *Erinocarpus nimmonii*, *Eulophia cullenii*, *Excoecaria gallocha*, *Gentiana kurrooa*, *Glossonema varians*, *Gymnocladus assamicus*, *Gynocardia odorata*, *Hubbardia heptaneuron*, *Humboldtia bourdillonii*, *Hydnocarpus kurzii*, *Hypericum gaitii*, *Ilex embelloides*, *Ilex khasiana*, *Ilex venulosa*, *Impatiens clavata*, *Impatiens talbotii*, *Kayea assamica*, *Lasiococca comberi*, *Lilium polyphyllum*, *Madhuca insignis*, *Malaxis muscifera*, *Meconopsis aculeata*, *Nepenthes khasiana*, *Paphiopedilum druryi*, *Paphiopedilum spicerianum*, *Paris polyphylla*, *Phoenix rupicola*, *Phyllanthus talbotii*, *Piper griffithii*, *Piper haridasanii*, *Piper lonchites*, *Pittosporum eriocarpum*, *Podophyllum hexandrum*, *Poeciloneuron pauciflorum*, *Pseudoglochidion anamalayanum*, *Rhododendron leptocarpum*, *Rhododendron macabeanum*, *Rhododendron wattii*, *Rhopaloblaste augusta*, *Schizostachyum kurzii*, *Semecarpus kathalekanensis*, *Skimmia anquetilia*, *Skimmia laureola*, *Stereospermum tetragonum*, *Trichopus zeylanicus*, *Vanda bicolor*, *Vanda thwaitisii*, *Vanda wightii*, *Vanilla ptilifera*, *Xylocarpus granatum*, *Xylocarpus mekongensis*.

Threat and conservation status assessments are based mostly on herbarium records and classification based on population data is available only for a few species. Information on species range and population size is incomplete. There is a lack of concerted and coordinated effort to visualize a larger picture of threatened plants conservation in the country. The integrated approach recently taken by DBT for species conservation has been

extremely successful. Such an approach needs to be replicated for saving more than 2000 threatened species of the country. Both the demographic as well as genetic enrichment approaches taken in threatened species conservation programme under DBT network project involve ten major steps. This tested protocol for conservation action is presented below for supporting future endeavours.

## Conservation of Threatened Plants of India

### Annexure I. List of threatened plants of India

Species name	Family	Species name	Family
<i>Abelmoschus esculentus</i> (L.) Moench	Malvaceae	<i>Adelocaryum malabaricum</i> (C.B.Clarke) Brand	Boraginaceae
<i>Abelmoschus manihot</i> (L.) Medik. subsp.	Malvaceae	<i>Adenia hondala</i> (Gaertn.) W.J.de Wilde	Passifloraceae
<i>tetraphyllus</i> (Roxb. ex Hornem.) Borss. Waalk.		<i>Adenosma malabaricum</i> Hook.f.	Scrophulariaceae
var. <i>pungens</i> (Roxb.) Hochr.		<i>Adenostemma lavenia</i> (L.) Kuntze	Asteraceae
<i>Abelmoschus moschatus</i> Medik.	Malvaceae	<i>Adenostemma lavenia</i> f. <i>angustifolium</i>	Asteraceae
<i>Abelmoschus moschatus</i> Medik. subsp.	Malvaceae	(C.B.Clarke) Kosterm.	
<i>tuberosus</i> (Span.) Borss. Waalk.		<i>Adenostemma lavenia</i> var. <i>latifolium</i> (D.Don)	Asteraceae
<i>Abies densa</i> Griff.	Pinaceae	Panigrahi	
<i>Abrus precatorius</i> L.	Fabaceae	<i>Adhatoda beddomei</i> C.B. Clarke	Acanthaceae
<i>Abrus pulchellus</i> Thwaites	Fabaceae	<i>Adiantum soboliferum</i> Wall. ex Hook.	Adiantaceae
<i>Abutilon ramosum</i> (Cav.) Guill. & Perr.	Malvaceae	<i>Adinandra griffithii</i> Dyer	Pentaphragaceae
<i>Abutilon ranadei</i> Woodrow & Stapf	Malvaceae	<i>Aegle marmelos</i> (L.) Corrêa	Rutaceae
<i>Acacia bolei</i> R.P.Subheddar	Mimosaceae	<i>Aenhenrya rotundifolia</i> (Blatt.) Sath.Kumar &	Orchidaceae
<i>Acacia catechu</i> (L.f.) Willd.	Mimosaceae	F.N.Rasm.	
<i>Acacia donaldii</i> Haines	Mimosaceae	<i>Aerides crassifolia</i> C.S.P.Parish ex Burb.	Orchidaceae
<i>Acacia eburnea</i> (L.f.) Willd.	Mimosaceae	<i>Aerides crispa</i> Lindl.	Orchidaceae
<i>Acacia hohenackeri</i> Craib.	Mimosaceae	<i>Aerides emericii</i> Rchb.f.	Orchidaceae
<i>Acacia intsia</i> (L.) Willd.	Mimosaceae	<i>Aerides falcata</i> Lindl. & Paxton	Orchidaceae
<i>Acacia jacquemontii</i> Benth.	Mimosaceae	<i>Aerides macmorlandii</i> B.S.Williams	Orchidaceae
<i>Acacia lenticularis</i> Benth.	Mimosaceae	<i>Aerides maculosa</i> Lindl.	Orchidaceae
<i>Acacia tomentosa</i> Willd.	Mimosaceae	<i>Aerides multiflora</i> Roxb.	Orchidaceae
<i>Acalypha australis</i> L.	Euphorbiaceae	<i>Aerides odorata</i> Lour.	Orchidaceae
<i>Acampe praemorsa</i> (Roxb.) Blatt. & McCann	Orchidaceae	<i>Aerides ringens</i> (Lindl.) C.E.C.Fisch.	Orchidaceae
<i>Acampe rigida</i> (Buch.-Ham. ex Sm.) P.F. Hunt	Orchidaceae	<i>Aerides rosea</i> Lodd. ex Lindl. & Paxton	Orchidaceae
<i>Acanthephippium bicolor</i> Lindl.	Orchidaceae	<i>Aerva wightii</i> Hook. f.	Amaranthaceae
<i>Acanthephippium striatum</i> Lindl.	Orchidaceae	<i>Aeschynanthus parasiticus</i> (Roxb.) Wall.	Gesneriaceae
<i>Acanthephippium sylhetense</i> Lindl.	Orchidaceae	<i>Agasthiyamalaia pauciflora</i> (Bedd.)	Clusiaceae
<i>Acanthus volubilis</i> Wall.	Acanthaceae	S.Rajkumar & Janarth.	
<i>Acer caesium</i> Wall. ex Brandis	Aceraceae	<i>Agave vera-cruz</i> Mill.	Agavaceae
<i>Acer calcaratum</i> Gagnep.	Aceraceae	<i>Aglaia cucullata</i> (Roxb.) Pellegr.	Meliaceae
<i>Acer laevigatum</i> Wall.	Aceraceae	<i>Aglaia elaeagnoidea</i> (A.Juss.) Benth.	Meliaceae
<i>Acer sikkimense</i> Miq.	Aceraceae	<i>Aglaia malabarica</i> Sasidh.	Meliaceae
<i>Acer oblongum</i> Wall. ex DC.	Aceraceae	<i>Aglaia perviridis</i> Hiern	Meliaceae
<i>Achyranthes coynei</i> Santapau	Amaranthaceae	<i>Agrostis brachiata</i> Munro ex Hook.f.	Poaceae
<i>Acilepis heynei</i> (Bedd. ex Gamble) H.Rob. &	Asteraceae	<i>Albertisia mecistophylla</i> (Miers) Forman	Menispermaceae
Skvarla		<i>Albizia chinensis</i> (Osbeck) Merr.	Mimosaceae
<i>Acmella paniculata</i> (Wall. ex DC.) R.K.Jansen	Asteraceae	<i>Albizia lathamii</i> Hole	Mimosaceae
<i>Aconitum balfourii</i> Stapf	Ranunculaceae	<i>Albizia orissensis</i> K.C.Sahni & Bennet	Fabaceae
<i>Aconitum chasmanthum</i> Stapf ex Holmes	Ranunculaceae	<i>Albizia thompsonii</i> Brandis	Fabaceae
<i>Aconitum elwesii</i> Stapf	Ranunculaceae	<i>Alchornea mollis</i> (Benth.) Müll.Arg.	Euphorbiaceae
<i>Aconitum ferox</i> Wall. ex Ser.	Ranunculaceae	<i>Alchornea tiliifolia</i> (Benth.) Müll.Arg.	Euphorbiaceae
<i>Aconitum heterophylloides</i> (Brühl) Stapf	Ranunculaceae	<i>Aldrovanda vesiculosa</i> L.	Droseraceae
<i>Aconitum heterophyllum</i> var. <i>bracteatum</i> Stapf	Ranunculaceae	<i>Allium auriculatum</i> Kunth	Alliaceae
<i>Aconitum heterophyllum</i> Wall. ex Royle	Ranunculaceae	<i>Allium loratum</i> Baker	Alliaceae
<i>Aconitum laeve</i> Royle	Ranunculaceae	<i>Allium roylei</i> Stearn	Alliaceae
<i>Aconitum lethale</i> Griff.	Ranunculaceae	<i>Allium stracheyi</i> Baker	Alliaceae
<i>Aconitum moschatum</i> (Brühl) Stapf	Ranunculaceae	<i>Allophylus concanicus</i> Radlk.	Sapindaceae
<i>Aconitum nagarum</i> Stapf	Ranunculaceae	<i>Alloterospis semialata</i> (R.Br.) Hitchc	Poaceae
<i>Aconitum napellus</i> L.	Ranunculaceae	<i>Alniphyllum fortunei</i> (Hemsl.) Makino	Styracaceae
<i>Aconitum palmatum</i> D.Don	Ranunculaceae	<i>Alocasia macrorrhizos</i> (L.) G.Don	Araceae
<i>Aconitum violaceum</i> Jacquem. ex Stapf	Ranunculaceae	<i>Alphonsea madraspatana</i> Bedd.	Annonaceae
<i>Acorus calamus</i> L.	Acoraceae	<i>Alphonsea zeylanica</i> Hook.f. & Thomson	Annonaceae
<i>Acranthera grandiflora</i> Bedd.	Rubiaceae	<i>Alpinia calcarata</i> (Haw.) Roscoe	Zingiberaceae
<i>Acranthera tomentosa</i> R.Br. ex Hook.f.	Rubiaceae	<i>Alpinia galanga</i> (L.) Willd.	Zingiberaceae
<i>Acroceras munroanum</i> (Balansa) Henrard	Poaceae	<i>Alpinia malaccensis</i> (Burm.f.) Roscoe	Zingiberaceae
<i>Acrochaena punctata</i> Lindl.	Orchidaceae	<i>Alsophila henryi</i> Baker	Cyatheaceae
<i>Acronema evolutum</i> (C.B.Clarke) H. Wolff	Apiaceae	<i>Alsophila nilgirensis</i> R.M.Tryon	Cyatheaceae
<i>Acronema pseudotenera</i> P.K.Mukh.	Apiaceae	<i>Alostonia venenata</i> R.Br.	Apocynaceae
<i>Acronema radiatum</i> (W.W.Sm.) H. Wolff	Apiaceae	<i>Alternanthera philoxeroides</i> (Mart.) Griseb.	Amaranthaceae
<i>Actinodaphne bourneae</i> Gamble	Lauraceae	<i>Alysicarpus bupleurifolius</i> (L.) DC.	Fabaceae
<i>Actinodaphne lanata</i> Meisn.	Lauraceae	<i>Alysicarpus bupleurifolius</i> var. <i>gracilis</i> (Edgew.)	Fabaceae
<i>Actinodaphne lawsonii</i> Gamble	Lauraceae	Baker	

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## Annexure 1. (Contd)

Species name	Family	Species name	Family
<i>Alysicarpus hamosus</i> Edgew.	Fabaceae	<i>Antidesma montanum</i> Blume	Euphorbiaceae
<i>Alysicarpus heyneanus</i> var. <i>meeboldii</i> (Schindl.) A.Pramanik & Thoth.	Fabaceae	<i>Antistrophe serratifolia</i> (Bedd.) Hook.f.	Myrsinaceae
<i>Alysicarpus ovalifolius</i> (Schum.) Leonard	Fabaceae	<i>Aphanamixis polystachya</i> (Wall.) R.Parker	Meliaceae
<i>Alysicarpus pubescens</i> J.S.Law	Fabaceae	<i>Aphyllorchis gollanii</i> Duthie	Orchidaceae
<i>Amaranthus blitum</i> subsp. <i>emarginatus</i> (Salzm. ex Uline & Bray) Carretero, Muñoz Garm. & Pedrol	Amaranthaceae	<i>Aphyllorchis montana</i> Rchb.f.	Orchidaceae
<i>Amaranthus blitum</i> L.	Amaranthaceae	<i>Apodytes dimidiata</i> E.Mey. ex Arn.	Icacinaceae
<i>Amentotaxus assamica</i> D.K.Ferguson	Taxaceae	<i>Aponogeton appendiculatus</i> H.Bruggen	Aponogetonaceae
<i>Ammannia desertorum</i> Blatt. & Hallb.	Lythraceae	<i>Aponogeton bruggenii</i> S.R.Yadav & Govekar	Aponogetonaceae
<i>Amomum maximum</i> Roxb.	Zingiberaceae	<i>Aponogeton crispus</i> Thunb.	Aponogetonaceae
<i>Amorphophallus commutatus</i> (Schott) Engl.	Araceae	<i>Aponogeton sripatus</i> Sundararagh., A.R.Kulk. & S.R.Yadav	Aponogetonaceae
<i>Amorphophallus hohenackeri</i> (Schott) Engl. & Gehrm.	Araceae	<i>Aporosa bourdillonii</i> Stapf	Euphorbiaceae
<i>Amorphophallus konkanensis</i> Hett., S.R.Yadav & K.S.Patil	Araceae	<i>Apostasia nuda</i> R.Br.	Orchidaceae
<i>Amorphophallus longistylus</i> Kurz ex Hook.f.	Araceae	<i>Aquilaria khasiana</i> Hallier f.	Thymelaeaceae
<i>Amorphophallus muelleri</i> Blume	Araceae	<i>Aquilaria malaccensis</i> Lam.	Thymelaeaceae
<i>Amorphophallus paeoniifolius</i> (Dennst.) Nicolson	Araceae	<i>Aquilegia nakaoui</i> Tamura	Ranunculaceae
<i>Amorphophallus sylvaticus</i> (Roxb.) Kunth	Araceae	<i>Aquilegia nivalis</i> (Baker) Falc. ex B.D.Jacks.	Ranunculaceae
<i>Ampelocissus araneosa</i> (Dalzell) Gamble	Vitaceae	<i>Arabis tibetica</i> Hook.f. & Thomson	Brassicaceae
<i>Ampelocissus barbata</i> (Wall.) Planch.	Vitaceae	<i>Aralia malabarica</i> Bedd.	Araliaceae
<i>Ampelocissus divaricata</i> (Wall. ex M.A.Lawson) Planch.	Vitaceae	<i>Ardisia blatteri</i> Gamble	Myrsinaceae
<i>Ampelocissus helferi</i> (M.A.Lawson) Planch.	Vitaceae	<i>Ardisia depressa</i> C.B.Clarke	Myrsinaceae
<i>Ampelocissus indica</i> (L.) Planch.	Vitaceae	<i>Ardisia quinquegona</i> Blume	Myrsinaceae
<i>Anacolosa densiflora</i> Bedd.	Olcaceae	<i>Ardisia rhynchophylla</i> C.B.Clarke	Myrsinaceae
<i>Anaphalis adnata</i> Wall. ex DC.	Asteraceae	<i>Ardisia thyrsoflora</i> D.Don	Myrsinaceae
<i>Anaphalis barnesii</i> C.E.C.Fisch.	Asteraceae	<i>Ardisia quinqueangularis</i> A.DC.	Myrsinaceae
<i>Anaphalis lawii</i> (Hook.f.) Gamble	Asteraceae	<i>Arenaria curvifolia</i> Majumdar	Caryophyllaceae
<i>Anaphyllum beddomei</i> Engl.	Araceae	<i>Arenaria ferruginea</i> Duthie ex F.N.Williams	Caryophyllaceae
<i>Androcorys pugioniformis</i> (Lindl. ex Hook.f.) K.Y.Lang	Orchidaceae	<i>Arenaria neelgherrensis</i> Wight & Arn.	Caryophyllaceae
<i>Andrographis nallamalayana</i> J.L.Ellis	Acanthaceae	<i>Arenaria thangoensis</i> W.W.Sm.	Caryophyllaceae
<i>Andrographis ovata</i> (T.Anderson ex Bedd.) Benth. & Hook.f.	Acanthaceae	<i>Arenga wightii</i> Griff.	Arecaceae
<i>Andrographis paniculata</i> (Burm.f.) Nees	Acanthaceae	<i>Argostemma courtallense</i> Arn.	Rubiaceae
<i>Andropogon pumilus</i> Roxb.	Poaceae	<i>Argostemma khasianum</i> C.B.Clarke	Rubiaceae
<i>Androsace aizoon</i> Duby	Primulaceae	<i>Argostemma sarmentosum</i> Wall.	Rubiaceae
<i>Androsace mucronifolia</i> Watt	Primulaceae	<i>Argostemma verticillatum</i> Wall.	Rubiaceae
<i>Androsace umbellata</i> (Lour.) Merr.	Primulaceae	<i>Argyrea arakuensis</i> N.P.Balacr.	Convolvulaceae
<i>Anemone tetrasepala</i> Royle	Ranunculaceae	<i>Argyrea nervosa</i> (Burm. f.) Bojer	Convolvulaceae
<i>Angelica glauca</i> Edgew.	Apiaceae	<i>Arisaema auriculatum</i> Buchet	Araceae
<i>Angelica nubigena</i> (C.B.Clarke) P.K.Mukh.	Apiaceae	<i>Arisaema caudatum</i> Engl.	Araceae
<i>Anigopteris evecta</i> (G. Forst.) Hoffm.	Marattiaceae	<i>Arisaema decipiens</i> Schott	Araceae
<i>Anisochilus argenteus</i> Gamble	Lamiaceae	<i>Arisaema griffithii</i> Schott	Araceae
<i>Anisochilus wightii</i> Hook.f.	Lamiaceae	<i>Arisaema murrayi</i> (J.Graham) Hook.	Araceae
<i>Anneslea fragrans</i> Wall.	Theaceae	<i>Arisaema tortuosum</i> (Wall.) Schott	Araceae
<i>Anodendron paniculatum</i> A.DC	Apocynaceae	<i>Aristida adscensionis</i> L.	Poaceae
<i>Anoectochilus brevilabris</i> Lindl.	Orchidaceae	<i>Aristida funiculata</i> Trin. & Rupr.	Poaceae
<i>Anoectochilus elatus</i> Lindl.	Orchidaceae	<i>Aristida redacta</i> Stapf	Poaceae
<i>Anoectochilus nicobariensis</i> N.P.Balacr. & P. Chakra.	Orchidaceae	<i>Aristolochia bracteolata</i> Lam.	Aristolochiaceae
<i>Anoectochilus roxburghii</i> (Wall.) Lindl.	Orchidaceae	<i>Aristolochia indica</i> L.	Aristolochiaceae
<i>Anogeissus acuminata</i> (Roxb. ex DC.) Wall. ex Guillem. & Perr.	Combretaceae	<i>Aristolochia tagala</i> Cham.	Aristolochiaceae
<i>Anogeissus sericea</i> Brandis	Combretaceae	<i>Arnebia benthamii</i> (Wall. ex G.Don) I.M.Johnst.	Boraginaceae
<i>Anogeissus sericea</i> var. <i>nummularia</i> King ex Duthie	Combretaceae	<i>Arnebia euchroma</i> (Royle) I.M.Johnst.	Boraginaceae
<i>Anthoxanthum horsfieldii</i> (Benn.) Reeder	Poaceae	<i>Artabotrys nicobarianus</i> D.Das	Annonaceae
<i>Antidesma bunius</i> (L.) Spreng.	Euphorbiaceae	<i>Artemisia gmelini</i> Besser	Asteraceae
		<i>Artemisia japonica</i> Thunb.	Asteraceae
		<i>Artemisia maritima</i> L.	Asteraceae
		<i>Artemisia myriantha</i> Wall. ex Besser	Asteraceae
		<i>Artemisia nilagirica</i> (C.B.Clarke) Pamp.	Asteraceae
		<i>Arthraxon depressus</i> Stapf ex C.E.C.Fisch.	Poaceae
		<i>Arthraxon lanceolatus</i> (Roxb.) Hochst.	Poaceae
		<i>Artocarpus hirsutus</i> Lam.	Moraceae
		<i>Arundina graminifolia</i> (D.Don) Hochr.	Orchidaceae
		<i>Arundinella ciliata</i> (Roxb.) Nees ex Miq.	Poaceae
		<i>Arundinella decempedalis</i> (Kuntze) Janowski	Poaceae

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## Conservation of Threatened Plants of India

### Annexure 1. (Contd)

Species name	Family	Species name	Family
<i>Arundinella holcoides</i> (Kunth) Trin.	Poaceae	<i>Begonia wattii</i> C.B. Clarke	Begoniaceae
<i>Arundinella tuberculata</i> Munro ex Lisboa	Poaceae	<i>Begonia wengeri</i> C.E.C. Fischer	Begoniaceae
<i>Arundo donax</i> L.	Poaceae	<i>Beilschmiedia bourdillonii</i> Brandis	Lauraceae
<i>Ascocentrum ampullaceum</i> (Roxb.) Schltr.	Orchidaceae	<i>Beilschmiedia dalzellii</i> (Meisn.) Kosterm.	Lauraceae
<i>Ascocentrum curvifolium</i> (Lindl.) Schltr.	Orchidaceae	<i>Beilschmiedia wightii</i> Benth. & Hook.f.	Lauraceae
<i>Ascocentrum himalaicum</i> (Deb, Sengupta & Malick) Christenson.	Orchidaceae	<i>Belosynapsis kewensis</i> Hassk.	Commenliaceae
<i>Ascocentrum miniatum</i> (Lindley) Schltr.	Orchidaceae	<i>Belosynapsis vivipara</i> (Dalzell) C.E.C.Fisch.	Commelinaceae
<i>Ascocentrum semiteretifolium</i> Seidenf.	Orchidaceae	<i>Bentinckia condapanna</i> Berry ex Roxb.	Arecaceae
<i>Asparagus asiaticus</i> L.	Asparagaceae	<i>Bentinckia nicobarica</i> (Kurz) Becc.	Arecaceae
<i>Asparagus racemosus</i> Willd.	Asparagaceae	<i>Berberis affinis</i> G. Don	Berberidaceae
<i>Asparagus rottleri</i> Baker	Asparagaceae	<i>Berberis aristata</i> DC.	Berberidaceae
<i>Aspidopterys canarensis</i> Dalzell	Malpighiaceae	<i>Berberis chitria</i> Buch.-Ham. ex Lindl.	Berberidaceae
<i>Aspidopterys cordata</i> (B. Heyne ex Wall.) A. Juss.	Malpighiaceae	<i>Berberis hugeliana</i> C.K. Schneid.	Berberidaceae
<i>Aspidopterys glabriuscula</i> A. Juss.	Malpighiaceae	<i>Berberis kashmirana</i> Ahrendt	Berberidaceae
<i>Aspidopterys oxyphylla</i> A. Juss.	Malpighiaceae	<i>Berberis jaeschkeana</i> var. <i>apiculata</i> (Ahrendt) H.B. Naithani & S.N. Biswas	Berberidaceae
<i>Aspidopterys tomentosa</i> var. <i>hutchinsonii</i> (Haines) R.C. Srivast.	Malpighiaceae	<i>Berberis lambertii</i> R. Parker	Berberidaceae
<i>Astragalus melanostachys</i> Bunge	Fabaceae	<i>Berberis lycium</i> Royle	Berberidaceae
<i>Astragalus munroi</i> Bunge	Fabaceae	<i>Berberis orthobotrys</i> Bien. ex Aitch.	Berberidaceae
<i>Astragalus rhanthus</i> Benth.	Fabaceae	<i>Berberis osmastonii</i> Dunn	Berberidaceae
<i>Astragalus stewartii</i> Baker	Fabaceae	<i>Berberis pseudumbellata</i> R. Parker	Berberidaceae
<i>Atalantia missionis</i> (Wight) Oliv.	Rutaceae	<i>Berberis royleana</i> Ahrendt	Berberidaceae
<i>Atalantia monophylla</i> DC.	Rutaceae	<i>Bergenia ciliata</i> (Haw.) Sternb.	Saxifragaceae
<i>Athyrium atratum</i> Bedd.	Athyriaceae	<i>Bergenia stracheyi</i> (Hook.f. & Thomson) Engl.	Saxifragaceae
<i>Athyrium duthiei</i> (Bedd.) Bedd.	Athyriaceae	<i>Bergia capensis</i> L.	Elatinaceae
<i>Atropa acuminata</i> Royle ex Lindl.	Solanaceae	<i>Betula utilis</i> D. Don	Betulaceae
<i>Atuna indica</i> (Bedd.) Kosterm.	Chrysobalanaceae	<i>Bhidea burnsiana</i> Bor	Poaceae
<i>Atuna travancorica</i> (Bedd.) Kosterm.	Chrysobalanaceae	<i>Biermannia jainiana</i> S.N. Hegde & A.N. Rao	Orchidaceae
<i>Bacopa hamiltoniana</i> (Benth.) Wettst.	Scrophulariaceae	<i>Blachia umbellata</i> (Willd.) Baill.	Euphorbiaceae
<i>Balanophora involucrata</i> Hook.f. & Thomson	Balanophoraceae	<i>Blepharis scindica</i> Stocks ex T. Anderson	Acanthaceae
<i>Balanophora polyandra</i> Griff.	Balanophoraceae	<i>Blepharispermum subsessile</i> DC.	Asteraceae
<i>Baliospermum solanifolium</i> (Burm.) Suresh	Euphorbiaceae	<i>Blepharistemma serratum</i> (Dennst.) Suresh	Rhizophoraceae
<i>Bambusa teres</i> Munro	Poaceae	<i>Blumea clarkei</i> Hook.f.	Asteraceae
<i>Barleria acanthoides</i> Vahl	Acanthaceae	<i>Blyxa echinosperma</i> (C.B. Clarke) Hook.f.	Hydrocharitaceae
<i>Barleria courtallica</i> Nees	Acanthaceae	<i>Boehmeria glomerulifera</i> Miq.	Urticaceae
<i>Barleria gibsonii</i> Dalzell	Acanthaceae	<i>Boehmeria japonica</i> (L.f.) Miq.	Urticaceae
<i>Barleria grandiflora</i> Dalzell	Acanthaceae	<i>Boehmeria tirapensis</i> Deb & R.M. Dutta	Urticaceae
<i>Barleria lawii</i> T. Anderson	Acanthaceae	<i>Boerhavia procumbens</i> Banks ex Roxb.	Nyctaginaceae
<i>Barleria prionitis</i> subsp. <i>pubiflora</i> (Benth. ex Hohen.) Brummitt & J.R.I. Wood	Acanthaceae	<i>Boesenbergia longiflora</i> (Wall.) Kuntze	Orchidaceae
<i>Bauhinia khasiana</i> Baker	Fabaceae	<i>Boesenbergia pulcherrima</i> (Wall.) Kuntze	Zingiberaceae
<i>Bauhinia scandens</i> L.	Fabaceae	<i>Bolboschoenus maritimus</i> (L.) Palla	Cyperaceae
<i>Bauhinia wallichii</i> J.F. Macbr.	Fabaceae	<i>Bolboschoenus maritimus</i> subsp. <i>maritimus</i>	Cyperaceae
<i>Beaumontia jerdoniana</i> Wight	Apocynaceae	<i>Bombax insigne</i> Wall.	Bombacaceae
<i>Begonia aborensis</i> Dunn	Begoniaceae	<i>Boswellia ovalifoliolata</i> N.P. Balakr. & A.N. Henry	Burseraceae
<i>Begonia aliciae</i> C.E.C. Fisch.	Begoniaceae	<i>Boswellia serrata</i> Roxb. ex Colebr.	Burseraceae
<i>Begonia anaimalaiensis</i> Bedd.	Begoniaceae	<i>Bothriochloa bladhii</i> (Retz.) S.T. Blake	Poaceae
<i>Begonia brevicaulis</i> A. DC.	Begoniaceae	<i>Bothriochloa compressa</i> (Hook.f.) Henrard	Poaceae
<i>Begonia burkillii</i> Dunn	Begoniaceae	<i>Bothriochloa kuntzeana</i> (Hack.) Henrard	Poaceae
<i>Begonia canarana</i> Miq.	Begoniaceae	<i>Brachiaria kurzii</i> (Hook.f.) A. Camus	Poaceae
<i>Begonia cordifolia</i> (Wight) Thw.	Begoniaceae	<i>Brachycorythis splendida</i> Summerh.	Orchidaceae
<i>Begonia lushaiensis</i> C.E.C. Fisch.	Begoniaceae	<i>Brachycorythis wightii</i> Summerh.	Orchidaceae
<i>Begonia phrixophylla</i> Blatt. & McCann	Begoniaceae	<i>Brachystelma glabrum</i> Hook.f.	Asclepiadaceae
<i>Begonia rubella</i> Buch.-Ham. ex D. Don	Begoniaceae	<i>Brachystelma volubile</i> Hook.f.	Asclepiadaceae
<i>Begonia rubro-venia</i> Hook.f. var. <i>meisneri</i> Clarke	Begoniaceae	<i>Bridelia glauca</i> Blume	Euphorbiaceae
<i>Begonia satrapis</i> Clarke	Begoniaceae	<i>Bridelia montana</i> (Roxb.) Willd.	Euphorbiaceae
<i>Begonia scintillans</i> Dunn	Begoniaceae	<i>Bridelia ovata</i> Decne.	Euphorbiaceae
<i>Begonia subpeltata</i> Wight	Begoniaceae	<i>Brucea mollis</i> Wall. ex Kurz	Simaroubaceae
<i>Begonia surculigera</i> Kurz	Begoniaceae	<i>Buchanania barberi</i> Gamble	Anacardiaceae
<i>Begonia tessaricarpa</i> C.B. Clarke	Begoniaceae	<i>Buchanania cochinchinensis</i> (Lour.) M.R. Almeida	Anacardiaceae
<i>Begonia trichocarpa</i> Dalzell	Begoniaceae	<i>Buchanania splendens</i> Miq.	Anacardiaceae

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## Annexure 1. (Contd)

Species name	Family	Species name	Family
<i>Bulbophyllum acutiflorum</i> A. Rich.	Orchidaceae	<i>Bulbophyllum pectinatum</i> Finet	Orchidaceae
<i>Bulbophyllum affine</i> Wall. ex Lindl.	Orchidaceae	<i>Bulbophyllum penicillium</i> E.C.Parish & Rchb.f.	Orchidaceae
<i>Bulbophyllum amplifolium</i> (Rolfe)	Orchidaceae	<i>Bulbophyllum picturatum</i> (Lodd.) Rchb.f.	Orchidaceae
N.P.Balacr. & Sud.Chowdhury		<i>Bulbophyllum piluliferum</i> King & Pantl.	Orchidaceae
<i>Bulbophyllum andersonii</i> (Hook.f.) J.J.Sm.	Orchidaceae	<i>Bulbophyllum polyrrhizum</i> Lindl.	Orchidaceae
<i>Bulbophyllum apodum</i> Hook.f.	Orchidaceae	<i>Bulbophyllum protractum</i> Hook.f.	Orchidaceae
<i>Bulbophyllum auratum</i> (Lindl.) Rchb.f.	Orchidaceae	<i>Bulbophyllum proudlockii</i> (King & Pantl.) J.J.Sm.	Orchidaceae
<i>Bulbophyllum aureum</i> (Hook.f.) J.J.Sm.	Orchidaceae	<i>Bulbophyllum psychoon</i> Rchb.f.	Orchidaceae
<i>Bulbophyllum bisetum</i> Lindl.	Orchidaceae	<i>Bulbophyllum putidum</i> (Teijsm. & Binn.) J.J.Sm.	Orchidaceae
<i>Bulbophyllum blepharistes</i> Rchb.f.	Orchidaceae	<i>Bulbophyllum rauai</i> Arora	Orchidaceae
<i>Bulbophyllum candidum</i> Hook.f.	Orchidaceae	<i>Bulbophyllum reptans</i> (Lindl.) Lindl. ex Wall.	Orchidaceae
<i>Bulbophyllum capillipes</i> E.C.Parish & Rchb.f.	Orchidaceae	<i>Bulbophyllum retusiusculum</i> Rchb.f.	Orchidaceae
<i>Bulbophyllum careyanum</i> (Hook.) Spreng.	Orchidaceae	<i>Bulbophyllum rheedei</i> Manilal & Sath.Kumar	Orchidaceae
<i>Bulbophyllum cariniflorum</i> Rchb.f.	Orchidaceae	<i>Bulbophyllum rigidum</i> King & Pantl.	Orchidaceae
<i>Bulbophyllum cauliflorum</i> Hook.f.	Orchidaceae	<i>Bulbophyllum rolfei</i> (Kuntze) Seidenf.	Orchidaceae
<i>Bulbophyllum collettii</i> King & Pantl.	Orchidaceae	<i>Bulbophyllum rosemarianum</i> Sath.Kumar,	Orchidaceae
<i>Bulbophyllum cornu-cervi</i> King.	Orchidaceae	P.C.S.Kumar & Saleemeem	
<i>Bulbophyllum crassipes</i> Hook.f.	Orchidaceae	<i>Bulbophyllum rothschildianum</i> (O'Brien) J.J.Sm.	Orchidaceae
<i>Bulbophyllum cupreum</i> Lindl.	Orchidaceae	<i>Bulbophyllum roxburghii</i> (Lindl.) Rchb.f.	Orchidaceae
<i>Bulbophyllum cylindraceum</i> Wall. ex Lindl.	Orchidaceae	<i>Bulbophyllum rufinum</i> Rchb.f.	Orchidaceae
<i>Bulbophyllum delitescens</i> Hance	Orchidaceae	<i>Bulbophyllum sarcophyllum</i> (King & Pantl.)	Orchidaceae
<i>Bulbophyllum depressum</i> King & Pantl.	Orchidaceae	J.J.Sm.	
<i>Bulbophyllum elassonotum</i> Summerh.	Orchidaceae	<i>Bulbophyllum scabratum</i> Rchb.f.	Orchidaceae
<i>Bulbophyllum elatum</i> (Hook.f.) J.J.Sm.	Orchidaceae	<i>Bulbophyllum schmidtianum</i> Rchb.f.	Orchidaceae
<i>Bulbophyllum elegans</i> Gardner ex Thwaites	Orchidaceae	<i>Bulbophyllum secundum</i> Hook.f.	Orchidaceae
<i>Bulbophyllum elegantulum</i> (Rolfe) J.J.Sm.	Orchidaceae	<i>Bulbophyllum silentvalliensis</i>	Orchidaceae
<i>Bulbophyllum emarginatum</i> (Finet) J.J.Sm..	Orchidaceae	M.P.Sharma & S.K.Srivast.	
<i>Bulbophyllum eublepharum</i> Rchb.f.	Orchidaceae	<i>Bulbophyllum spathulatum</i>	Orchidaceae
<i>Bulbophyllum fallax</i> Rolfe	Orchidaceae	(Rolfe ex E.W.Cooper) Seidenf.	
<i>Bulbophyllum fischeri</i> Seidenf.	Orchidaceae	<i>Bulbophyllum striatum</i> (Griff.) Rchb.f.	Orchidaceae
<i>Bulbophyllum forrestii</i> Seidenf.	Orchidaceae	<i>Bulbophyllum tremulum</i> Wight	Orchidaceae
<i>Bulbophyllum fuscopurpureum</i> Wight	Orchidaceae	<i>Bulbophyllum tricorne</i> Seidenf. & Smitinand	Orchidaceae
<i>Bulbophyllum gracilipes</i> King & Pantl.	Orchidaceae	<i>Bulbophyllum triste</i> Rchb.f.	Orchidaceae
<i>Bulbophyllum griffithii</i> (Lindl.) Rchb.f.	Orchidaceae	<i>Bulbophyllum umbellatum</i> Lindl.	Orchidaceae
<i>Bulbophyllum guttulatam</i> (Hook.f.) N.P.Balacr.	Orchidaceae	<i>Bulbophyllum viridiflorum</i> (Hook.f.) Schltr..	Orchidaceae
<i>Bulbophyllum gymnopus</i> Hook.f.	Orchidaceae	<i>Bulbophyllum wallichii</i> Rchb.f.	Orchidaceae
<i>Bulbophyllum gyrochilum</i> Seidenf.	Orchidaceae	<i>Bulbophyllum xylophyllum</i> E.C.Parish & Rchb.f.	Orchidaceae
<i>Bulbophyllum helenae</i> (Kuntze) J.J.Sm.	Orchidaceae	<i>Bulbophyllum yoksunense</i> J.J.Sm.	Orchidaceae
<i>Bulbophyllum hirtum</i> (Sm.) Lindl. ex Wall.	Orchidaceae	<i>Bulbophyllum acutiflorum</i> A.Rich.	Orchidaceae
<i>Bulbophyllum hymenanthum</i> Hook.f.	Orchidaceae	<i>Bulbophyllum cylindricum</i> King.	Orchidaceae
<i>Bulbophyllum iners</i> Rchb.f.	Orchidaceae	<i>Bulbophyllum fimbriatum</i> (Lindl.) Rchb.f.	Orchidaceae
<i>Bulbophyllum kaitiense</i> Rchb.f.	Orchidaceae	<i>Bulbophyllum repens</i> Griff.	Orchidaceae
<i>Bulbophyllum keralense</i> M.Kumar & Sequiera	Orchidaceae	<i>Bulbostylis densa</i> (Wall.) Hand.-Mazz.	Cyperaceae
<i>Bulbophyllum khasyanum</i> Griff.	Orchidaceae	<i>Bulbostylis subspinescens</i> C.B.Clarke	Cyperaceae
<i>Bulbophyllum leopardinum</i> (Wall.)	Orchidaceae	<i>Bulleyia yunnanensis</i> Schltr.	Orchidaceae
Lindl. ex Wall.		<i>Bunium nothum</i> (C.B.Clarke) P.K.Mukh.	Apiaceae
<i>Bulbophyllum leptanthum</i> Hook.f.	Orchidaceae	<i>Bupleurum plantaginifolium</i> Wight	Apiaceae
<i>Bulbophyllum lilacinum</i> Ridl.	Orchidaceae	<i>Bursera serrata</i> Wall. ex Colebr.	Burseraceae
<i>Bulbophyllum lobbii</i> Lindl.	Orchidaceae	<i>Butea monosperma</i> (Lam.) Taub.	Fabaceae
<i>Bulbophyllum macraei</i> (Lindl.) Rchb.f.	Orchidaceae	<i>Byrsophyllum tetrandrum</i> (Bedd.) Hook.f.	Rubiaceae
<i>Bulbophyllum macranthum</i> Lindl.	Orchidaceae	<i>Cadaba fruticosa</i> (L.) Druce	Capparaceae
<i>Bulbophyllum maskeliyense</i> Liveraa	Orchidaceae	<i>Caesalpinia digyna</i> Rottler	Caesalpinaceae
<i>Bulbophyllum moniliforme</i> E.C.Parish & Rchb.f.	Orchidaceae	<i>Cajanus cajanifolius</i> (Haines) Maesen	Fabaceae
<i>Bulbophyllum muscicola</i> Rchb.f.th	Orchidaceae	<i>Cajanus goensis</i> Dalzell	Fabaceae
<i>Bulbophyllum mysorensis</i> (Rolfe) J.J.Sm.	Orchidaceae	<i>Cajanus platycarpus</i> (Benth.) Maesen	Fabaceae
<i>Bulbophyllum nodosum</i> (Rolfe) J.J.Sm.	Orchidaceae	<i>Cajanus rugosus</i> (Wight & Arn.) Maesen	Fabaceae
<i>Bulbophyllum odoratissimum</i> (Sm.)	Orchidaceae	<i>Cajanus sericeus</i> (Baker) Maesen	Fabaceae
Lindl. ex Wall.		<i>Calamagrostis decora</i> Hook.f.	Poaceae
<i>Bulbophyllum orectopetalum</i> Garay,	Orchidaceae	<i>Calamagrostis scabrescens</i> Griseb.	Poaceae
Hamer & Siegerist		<i>Calamus brandisii</i> Becc.	Arecaceae
<i>Bulbophyllum ornatissimum</i> (Rchb.f.) J.J.Sm.	Orchidaceae	<i>Calamus dilaceratus</i> Becc.	Arecaceae
<i>Bulbophyllum parviflorum</i> E.C.Parish & Rchb.f.	Orchidaceae	<i>Calamus gamblei</i> Becc.	Arecaceae

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## Conservation of Threatened Plants of India

### Annexure 1. (Contd)

Species name	Family	Species name	Family
<i>Calamus nagbettaii</i> R.R.Fernald & Dey	Arecaceae	<i>Carex oligocarya</i> C.B.Clarke	Cyperaceae
<i>Calamus nambariensis</i> Becc.	Arecaceae	<i>Carex phacota</i> Spreng.	Cyperaceae
<i>Calamus travancoricus</i> Bedd. ex Becc.	Arecaceae	<i>Carex pseudoaperta</i> Boeckeler ex Kük.	Cyperaceae
<i>Calamus vattayila</i> Renuka	Arecaceae	<i>Carex rara</i> Boott	Cyperaceae
<i>Calanthe alpina</i> Hook.f. ex Lindl.	Orchidaceae	<i>Carex remota</i> L.	Cyperaceae
<i>Calanthe biloba</i> Lindl.	Orchidaceae	<i>Carex repanda</i> C.B.Clarke	Cyperaceae
<i>Calanthe brevicornu</i> Lindl.	Orchidaceae	<i>Carex sahnii</i> Ghildyal & U.C.Bhattach.	Cyperaceae
<i>Calanthe clavata</i> Lindl.	Orchidaceae	<i>Carex stramentitia</i> Boott ex Boeckeler	Cyperaceae
<i>Calanthe davidii</i> Franch.	Orchidaceae	<i>Carex teres</i> Boott	Cyperaceae
<i>Calanthe fulgens</i> Lindl.	Orchidaceae	<i>Carex vicinalis</i> Boott	Cyperaceae
<i>Calanthe furcata</i> var. <i>alismatifolia</i> (Lindl.) M. Hiroe	Orchidaceae	<i>Carex filicina</i> Nees	Cyperaceae
<i>Calanthe griffithii</i> Lindl.	Orchidaceae	<i>Carissa spinarum</i> L.	Apocynaceae
<i>Calanthe herbacea</i> Lindl.	Orchidaceae	<i>Cassipourea ceylanica</i> (Gardner) Alston	Rhizophoraceae
<i>Calanthe mannii</i> Hook.f.	Orchidaceae	<i>Catabrosa aquatica</i> (L.) P.Beauv.	Poaceae
<i>Calanthe odora</i> Griff.	Orchidaceae	<i>Catamixis baccharoides</i> Thomson	Asteraceae
<i>Calanthe plantaginea</i> Lindl.	Orchidaceae	<i>Cautleya spicata</i> (Sm.) Baker	Zingiberaceae
<i>Calanthe puberula</i> Lindl.	Orchidaceae	<i>Cayratia pedata</i> (Lam.) Gagnep.	Vitaceae
<i>Calanthe sylvatica</i> (Thouars) Lindl.	Orchidaceae	<i>Cayratia roxburghii</i> (Planch.) Gagnep.	Vitaceae
<i>Calanthe tricarinata</i> Lindl.	Orchidaceae	<i>Celastrus paniculatus</i> Willd.	Celastraceae
<i>Calanthe triplicata</i> (Willemet) Ames	Orchidaceae	<i>Celtis timorensis</i> Span.	Ulmaceae
<i>Calanthe uncata</i> Lindl.	Orchidaceae	<i>Cenchrus biflorus</i> Roxb.	Poaceae
<i>Calanthe whiteana</i> King & Pantl.	Orchidaceae	<i>Cenchrus prierii</i> (Kunth) Maire	Poaceae
<i>Calanthe yuksomnensis</i> Lucksom	Orchidaceae	<i>Cenchrus setiger</i> Vahl	Poaceae
<i>Caldesia oligococca</i> (F.Muell.) Buchanan	Alismataceae	<i>Centaurium pulchellum</i> var. <i>altaicum</i> (Griseb.) Kitag. & H.Hara	Gentianaceae
<i>Calibrachoa parviflora</i> (Juss.) D'Arcy	Solanaceae	<i>Cephalotaxus mannii</i> Hook.f.	Cephalotaxaceae
<i>Calliandra cynometroides</i> Bedd.	Fabaceae	<i>Cerastium thomsonii</i> Hook.f.	Caryophyllaceae
<i>Calligonum polygonoides</i> L.	Polygonaceae	<i>Ceratostylis subulata</i> Blume	Orchidaceae
<i>Callitriche stagnalis</i> Scop.	Callitrichaceae	<i>Cerbera odollam</i> Gaertn.	Apocynaceae
<i>Callostylis bambusifolia</i> (Lindl.) S.C.Chen & J.J.Wood	Orchidaceae	<i>Ceriops decandra</i> (Griff.) W.Theob.	Rhizophoraceae
<i>Calophyllum apetalum</i> Willd.	Clusiaceae	<i>Ceriops tagal</i> (Perr.) C.B.Rob.	Rhizophoraceae
<i>Calophyllum austroindicum</i> Kosterm. ex P.F.Stevens	Clusiaceae	<i>Ceropegia arnotiana</i> Wight	Asclepiadaceae
<i>Calpurnia aurea</i> (Aiton) Benth.	Fabaceae	<i>Ceropegia attenuata</i> Hook.	Asclepiadaceae
<i>Campanula alphonisii</i> Wall. ex A.DC.	Campanulaceae	<i>Ceropegia barnesii</i> E.A.Bruce & Chatterjee	Asclepiadaceae
<i>Campanula pallida</i> Wall.	Campanulaceae	<i>Ceropegia beddomei</i> Hook.f.	Asclepiadaceae
<i>Campanula wattiana</i> B.K.Nayar & Babu	Campanulaceae	<i>Ceropegia bulbosa</i> Roxb.	Apocynaceae
<i>Campylanthus ramosissimus</i> Wight	Scrophulariaceae	<i>Ceropegia candelabrum</i> L.	Asclepiadaceae
<i>Canarium strictum</i> Roxb.	Bursaceae	<i>Ceropegia decaisneana</i> Wight	Asclepiadaceae
<i>Canavalia gladiata</i> (Jacq.) DC.	Fabaceae	<i>Ceropegia evansii</i> McCann	Asclepiadaceae
<i>Canscora concanensis</i> C.B.Clarke	Gentianaceae	<i>Ceropegia fantastica</i> Sedgw.	Asclepiadaceae
<i>Canscora heteroclita</i> (L.) Gilg	Gentianaceae	<i>Ceropegia fimbriifera</i> Bedd.	Asclepiadaceae
<i>Canthium angustifolium</i> Roxb.	Rubiaceae	<i>Ceropegia hirsuta</i> Wight & Arn.	Asclepiadaceae
<i>Canthium rheedei</i> DC.	Rubiaceae	<i>Ceropegia hookeri</i> C.B.Clarke ex Hook.f.	Asclepiadaceae
<i>Capparis baducca</i> L.	Capparaceae	<i>Ceropegia huberi</i> Ansari	Asclepiadaceae
<i>Capparis cinerea</i> M.Jacobs	Capparaceae	<i>Ceropegia jainii</i> Ansari & B.G.P.Kulk.	Asclepiadaceae
<i>Capparis diversifolia</i> Wight & Arn.	Capparaceae	<i>Ceropegia lawii</i> Hook.f.	Asclepiadaceae
<i>Capparis fusifera</i> Dunn	Capparaceae	<i>Ceropegia longifolia</i> Wall.	Asclepiadaceae
<i>Capparis moonii</i> Wight	Capparaceae	<i>Ceropegia lucida</i> Wall.	Asclepiadaceae
<i>Capparis olacifolia</i> Hook.f. & Thomson	Capparaceae	<i>Ceropegia maccannii</i> Ansari	Asclepiadaceae
<i>Capparis pachyphylla</i> M.Jacobs	Capparaceae	<i>Ceropegia maculata</i> Bedd.	Asclepiadaceae
<i>Capparis roxburghii</i> DC.	Capparaceae	<i>Ceropegia mahabalei</i> Hemadri & Ansari	Asclepiadaceae
<i>Capparis shevaroyensis</i> Sundararagh.	Capparaceae	<i>Ceropegia media</i> (Huber) Ansari	Asclepiadaceae
<i>Caralluma edulis</i> (Edgew.) Benth. ex Hook.f.	Asclepiadaceae	<i>Ceropegia metziana</i> Miq.	Asclepiadaceae
<i>Carduus edelbergii</i> Rech.f.	Asteraceae	<i>Ceropegia noorjahaniae</i> M.A.Ansari	Asclepiadaceae
<i>Carex atherodes</i> Spreng.	Cyperaceae	<i>Ceropegia oculata</i> Hook.	Asclepiadaceae
<i>Carex baccans</i> Nees	Cyperaceae	<i>Ceropegia odorata</i> Nimmo	Asclepiadaceae
<i>Carex borii</i> Nelmes	Cyperaceae	<i>Ceropegia omissa</i> H.Huber	Asclepiadaceae
<i>Carex christii</i> Boeckeler	Cyperaceae	<i>Ceropegia pusilla</i> Wight & Arn.	Asclepiadaceae
<i>Carex munroi</i> Boott ex C.B.Clarke	Cyperaceae	<i>Ceropegia santapau</i> Wadhwa & Ansari	Asclepiadaceae
<i>Carex myosurus</i> Nees	Cyperaceae	<i>Ceropegia spiralis</i> Wight	Asclepiadaceae
		<i>Ceropegia thwaitesii</i> Hook.	Asclepiadaceae
		<i>Ceropegia vincifolia</i> Hook.	Asclepiadaceae

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## Annexure 1. (Contd)

Species name	Family	Species name	Family
<i>Chaerophyllum reflexum</i> Aitch	Apiaceae	<i>Clematis bourdillonii</i> Dunn	Ranunculaceae
<i>Chamaecrista leschenaultiana</i> (DC.) Degener	Leguminosae	<i>Clematis fulvicoma</i> Rehder & E.H.Wilson	Ranunculaceae
<i>Chamaegastrodia vaginata</i> (Hook.f.) Seidenf.	Orchidaceae	<i>Clematis gouriana</i> Roxb. ex DC.	Ranunculaceae
<i>Cheilocostus lacerus</i> (Gagnep.) C.D.Specht	Zingiberaceae	<i>Clematis roylei</i> Rehder	Ranunculaceae
<i>Cheilocostus speciosus</i> (J.Koenig) C.D.Specht	Zingiberaceae	<i>Clematis theobromina</i> Dunn	Ranunculaceae
<i>Cheirostylis seidenfadeniana</i> Sath.Kumar & F.N.Rasm.	Orchidaceae	<i>Cleome felina</i> L.f.	Cleomaceae
<i>Chilocarpus denudatus</i> Blume	Apocyanaceae	<i>Cleome rutidosperma</i> var. <i>burmannii</i> (Wight & Arn.) Siddiqui & S.N.Dixit	Capparaceae
<i>Chiloschista glandulosa</i> Blatt. & McCann	Orchidaceae	<i>Clerodendrum glandulosum</i> Lindl.	Lamiaceae
<i>Chilostachya usneoides</i> (D.Don) Lindl.	Orchidaceae	<i>Cleyera japonica</i> Thunb.	Theaceae
<i>Chionanthus mala-elengi</i> (Dennst.) P.S.Green	Oleaceae	<i>Cochlospermum religiosum</i> (L.) Alston	Bixaceae
<i>Chionanthus ramiflorus</i> Roxb.	Oleaceae	<i>Codariocalyx motorius</i> (Houtt.) H. Ohashi	Fabaceae
<i>Chloris montana</i> Roxb.	Poaceae	<i>Codonopsis affinis</i> Hook.f. & Thomson	Campanulaceae
<i>Chlorophytum arundinaceum</i> Baker	Asparagaceae	<i>Coelachne minuta</i> Bor	Poaceae
<i>Chlorophytum borivilianum</i> Santapau & R.R.Fern.	Asparagaceae	<i>Coelachne simpliciuscula</i> (Steud.) Munro ex Benth.	Poaceae
<i>Chlorophytum glaucum</i> Dalzell	Asparagaceae	<i>Coelogyne albolutea</i> Rolfe	Orchidaceae
<i>Chlorophytum laxum</i> R.Br.	Asparagaceae	<i>Coelogyne assamica</i> Linden & Rchb.f.	Orchidaceae
<i>Chlorophytum bharuchae</i> Ansari, Sundararagh. & Hemadri	Asparagaceae	<i>Coelogyne barbata</i> Lindl. ex Griff.	Orchidaceae
<i>Chlorophytum tuberosum</i> (Roxb.) Baker	Asparagaceae	<i>Coelogyne breviscapa</i> Lindl.	Orchidaceae
<i>Chondrilla setulosa</i> C.B.Clarke	Asteraceae	<i>Coelogyne corymbosa</i> Lindl.	Orchidaceae
<i>Chonemorpha fragrans</i> (Moon) Alston	Apocynaceae	<i>Coelogyne cristata</i> Lindl.	Orchidaceae
<i>Christella clarkei</i> Holttum in B.K.Nayar & S.Kaur	Thelypteridaceae	<i>Coelogyne fimbriata</i> Lindl.	Orchidaceae
<i>Christella kumaonica</i> Holttum	Thelypteridaceae	<i>Coelogyne flaccida</i> Lindl.	Orchidaceae
<i>Christensenia assamica</i> (Griff.) Ching	Christensiaceae	<i>Coelogyne fuscescens</i> Lindl.	Orchidaceae
<i>Christiopsis tricuspis</i> (Hook.) Christ	Polypodiaceae	<i>Coelogyne ghatakii</i> T.K.Paul, S.K.Basu & M.C.Biswas	Orchidaceae
<i>Chrysoglossum ornatum</i> Blume	Orchidaceae	<i>Coelogyne glandulosa</i> var. <i>glandulosa</i>	Orchidaceae
<i>Chrysopogon aciculatus</i> (Retz.) Trin.	Poaceae	<i>Coelogyne griffithii</i> Hook.f.	Orchidaceae
<i>Chrysopogon lancearius</i> (Hook.f.) Haines	Poaceae	<i>Coelogyne hajrae</i> Phukan	Orchidaceae
<i>Chrysopogon velutinus</i> (Hook.f.) Bor.	Poaceae	<i>Coelogyne hitendrae</i> S.Das & S.K.Jain	Orchidaceae
<i>Chrysopogon hamiltonii</i> (Hook.f.) Haines	Poaceae	<i>Coelogyne holochila</i> P.F.Hunt & Summerh.	Orchidaceae
<i>Chukrasia tabularis</i> A.Juss.	Meliaceae	<i>Coelogyne longipes</i> Lindl.	Orchidaceae
<i>Cibotium barometz</i> (L.) J.Sm.	Dicksoniaceae	<i>Coelogyne micrantha</i> Lindl.	Orchidaceae
<i>Cinnamomum sulphuratum</i> Nees	Lauraceae	<i>Coelogyne mossiae</i> Rolfe	Orchidaceae
<i>Cinnamomum bejoghota</i> (Buch.-Ham.) Sweet	Lauraceae	<i>Coelogyne nervosa</i> A.Rich.	Orchidaceae
<i>Cinnamomum cassia</i> (L.) J.Presl	Lauraceae	<i>Coelogyne nitida</i> (Wall. ex D.Don) Lindl.	Orchidaceae
<i>Cinnamomum glaucescens</i> (Nees) Hand.-Mazz.	Lauraceae	<i>Coelogyne occultata</i> Hook.f.	Orchidaceae
<i>Cinnamomum macrocarpum</i> Hook.f.	Lauraceae	<i>Coelogyne odoratissima</i> Lindl.	Orchidaceae
<i>Cinnamomum malabratum</i> (Burm.f.) J.Presl	Lauraceae	<i>Coelogyne ovalis</i> Lindl.	Orchidaceae
<i>Cinnamomum perrottetii</i> Meisn.	Lauraceae	<i>Coelogyne pendula</i> Summerh. ex D.A.Clayton & J.J.Wood	Orchidaceae
<i>Cinnamomum riparium</i> Gamble	Lauraceae	<i>Coelogyne prolifera</i> Lindl.	Orchidaceae
<i>Cinnamomum tamala</i> (Buch.-Ham.) T.Nees & Eberm.	Lauraceae	<i>Coelogyne punctulata</i> Lindl.	Orchidaceae
<i>Cinnamomum travancoricum</i> Gamble	Lauraceae	<i>Coelogyne quadratiloba</i> Gagnep.	Orchidaceae
<i>Cinnamomum walaiwarensense</i> Kosterm.	Lauraceae	<i>Coelogyne rigida</i> E.C.Parish & Rchb.f.	Orchidaceae
<i>Cinnamomum wightii</i> Meisn.	Lauraceae	<i>Coelogyne schultesii</i> S.K.Jain & S.Das	Orchidaceae
<i>Circaea agrestis</i> Maxim.	Asteraceae	<i>Coelogyne stricta</i> (D.Don) Schltr.	Orchidaceae
<i>Cissus spectabilis</i> Hochst. ex Planch.	Vitaceae	<i>Coelogyne suaveolens</i> (Lindl.) Hook.f.	Orchidaceae
<i>Cissus vitiginea</i> L.	Vitaceae	<i>Coelogyne trinervis</i> Lindl.	Orchidaceae
<i>Citrullus colocynthis</i> (L.) Schrad.	Cucurbitaceae	<i>Coelogyne viscosa</i> Rchb.f.	Orchidaceae
<i>Citrus hystrix</i> DC.	Rutaceae	<i>Coelorrachis clarkei</i> (Hack.) Blatt. & McCann	Poaceae
<i>Claoxylon anomalum</i> Hook.f.	Euphorbiaceae	<i>Coelosperrum decipiens</i> Baill.	Rubiaceae
<i>Clarkella nana</i> (Edgew.) Hook.f.	Rubiaceae	<i>Coix aquatica</i> Roxb.	Poaceae
<i>Cleisostoma appendiculatum</i> (Lindl.) Benth. & Hook.f. ex B.D.Jacks.	Orchidaceae	<i>Coix lacryma-jobi</i> L.	Poaceae
<i>Cleisostoma discolor</i> Lindl.	Orchidaceae	<i>Colchicum luteum</i> Baker	Colchicaceae
<i>Cleisostoma paniculatum</i> (Ker Gawl.) Garay	Orchidaceae	<i>Colona flagrocarpa</i> (C.B.Clarke) Craib	Tiliaceae
<i>Cleistanthus patulus</i> (Roxb.) Müll.Arg.	Euphorbiaceae	<i>Commelina appendiculata</i> C.B.Clarke	Commelinaceae
<i>Cleistanthus travancorensis</i> Jabl.	Euphorbiaceae	<i>Commelina caroliniana</i> Walter	Commelinaceae
<i>Clematis apiculata</i> Hook.f. & Thomson	Ranunculaceae	<i>Commelina clavata</i> C.B.Clarke	Commelinaceae
		<i>Commelina elliptica</i> Kunth	Commelinaceae
		<i>Commelina imberbis</i> Ehrenb. ex Hassk.	Commelinaceae

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## Conservation of Threatened Plants of India

### Annexure 1. (Contd)

Species name	Family	Species name	Family
<i>Commelina indehiscens</i> E.Barnes	Commelinaceae	<i>Crotalaria meeboldii</i> Dunn	Fabaceae
<i>Commelina paleata</i> Hassk.	Commelinaceae	<i>Crotalaria notonii</i> Wight & Arn.	Fabaceae
<i>Commelina tricolor</i> E.Barnes	Commelinaceae	<i>Crotalaria obtecta</i> Wight & Arn.	Fabaceae
<i>Commelina wightii</i> Raizada	Commelinaceae	<i>Crotalaria peduncularis</i> Wight & Arn.	Fabaceae
<i>Commiphora wightii</i> (Arn.) Bhandari	Burseraceae	<i>Crotalaria priestleyoides</i> Baker	Fabaceae
<i>Conchidium filiforme</i> (Wight) Rauschert	Orchidaceae	<i>Crotalaria pusilla</i> DC.	Fabaceae
<i>Conchidium microchilos</i> (Dalzell) Rauschert	Orchidaceae	<i>Crotalaria rigida</i> B.Heyne	Fabaceae
<i>Conchidium microchilos</i> (Dalzell) Rauschert	Orchidaceae	<i>Crotalaria sandoorensis</i> Gamble	Fabaceae
<i>Conchidium muscicola</i> (Lindl.) Rauschert	Orchidaceae	<i>Crotalaria scabra</i> Gamble	Fabaceae
<i>Conchidium nanum</i> (A.Rich.) Brieger	Orchidaceae	<i>Crotalaria scabrella</i> Wight & Arn.	Fabaceae
<i>Convolvulus prostratus</i> Forssk.	Convolvulaceae	<i>Crotalaria sessiliflora</i> L.	Fabaceae
<i>Convolvulus stocksii</i> Boiss.	Convolvulaceae	<i>Crotalaria stocksii</i> Baker	Fabaceae
<i>Conyza japonica</i> (Thunb.) Less. ex Less.	Asteraceae	<i>Croton scabiosus</i> Bedd.	Euphorbiaceae
<i>Coptis teeta</i> Wall.	Ranunculaceae	<i>Cryptocarya ferrarsi</i> King ex Hook.f.	Lauraceae
<i>Corallocarpus conocarpus</i> (Dalzell & A.Gibson) Hook.f.	Cucurbitaceae	<i>Cryptocarya stocksii</i> Meisn.	Lauraceae
<i>Corallocarpus epigaeus</i> (Rottler) Hook.f.	Cucurbitaceae	<i>Cryptocoryne ciliata</i> (Roxb.) Fisch. ex Wydler	Araceae
<i>Cordia crenata</i> Delile	Boraginaceae	<i>Cryptocoryne cognata</i> Schott	Araceae
<i>Cordia grandis</i> Roxb.	Boraginaceae	<i>Cryptocoryne consobrina</i> Schott	Araceae
<i>Cordia macleodii</i> Hook.f. & Thomson	Boraginaceae	<i>Cryptocoryne spiralis</i> (Retz.) Fisch. ex Wydler	Araceae
<i>Cordia monoica</i> Roxb.	Boraginaceae	<i>Cryptocoryne spiralis</i> var. <i>cognatoides</i>	Araceae
<i>Cordia octandra</i> A.DC.	Boraginaceae	(Blatt. & McCann) S.R.Yadav, K.S.Patil & Bogner	
<i>Cordia sinensis</i> Lam.	Boraginaceae	<i>Cryptolepis sinensis</i> (Lour.) Merr.	Asclepiadaceae
<i>Corybas himalaicus</i> (King & Pantl.) Schltr.	Orchidaceae	<i>Cryptostegia grandiflora</i> Roxb. ex R.Br.	Asclepiadaceae
<i>Corydalis cashmeriana</i> Royle	Papaveraceae	<i>Cucumi sprophetarum</i> L.	Cucurbitaceae
<i>Corydalis crassifolia</i> Royle	Fumariaceae	<i>Cullen corylifolium</i> (L.) Medik.	Fabaceae
<i>Corymborkis veratrifolia</i> (Reinw.) Blume	Orchidaceae	<i>Cullen plicatum</i> (Delile) C.H.Stirt.	Fabaceae
<i>Corypha utan</i> Lam.	Arecaceae	<i>Curculigo orchioides</i> Gaertn.	Hypoxidaceae
<i>Cosciniium fenestratum</i> (Goetgh.) Colebr..	Menispermaceae	<i>Curcuma angustifolia</i> Roxb.	Zingiberaceae
<i>Cotoneaster buxifolius</i> Wall. ex Lindl.	Rosaceae	<i>Curcuma bhatii</i> (R.M.Sm.) Škorničk. & M.Sabu	Zingiberaceae
<i>Cotoneaster cashmiriensis</i> G.Klotz	Rosaceae	<i>Curcuma caesia</i> Roxb.	Zingiberaceae
<i>Cotoneaster simonsii</i> hort. ex Baker	Rosaceae	<i>Curcuma ferruginea</i> Roxb.	Zingiberaceae
<i>Cotula hemispherica</i> (Roxb.) Babu	Asteraceae	<i>Curcuma montana</i> Roxb.	Zingiberaceae
<i>Cousinia falconeri</i> Hook.f.	Asteraceae	<i>Curcuma pseudomontana</i> J.Graham	Zingiberaceae
<i>Craterostigma plantagineum</i> Hochst.	Linderniaceae	<i>Curcuma zedoaria</i> (Christm.) Roscoe	Zingiberaceae
<i>Crateva religiosa</i> G.Forst.	Capparaceae	<i>Cuscuta chinensis</i> Lam.	Cuscutaceae
<i>Cremanthodium arnicoides</i> (DC. ex Royle) R.D.Good	Asteraceae	<i>Cyananthus integer</i> Wall. ex Benth.	Campanulaceae
<i>Cremanthodium ellisii</i> (Hook.f.) Kitam.	Asteraceae	<i>Cyanotis arachnoidea</i> C.B.Clarke	Commelinaceae
<i>Crepidium acuminatum</i> (D.Don) Szlach.	Orchidaceae	<i>Cyanotis burmanniana</i> Wight	Commelinaceae
<i>Crepidium bauritum</i> (Lindl.) Szlach.	Orchidaceae	<i>Cyanotis cerifolia</i> R.S.Rao & Kammathy	Commelinaceae
<i>Crepidium mackinnonii</i> (Duthie) Szlach.	Orchidaceae	<i>Cyanotis fasciculata</i> (B.Heyne ex Roth) Schult. & Schult.f.	Commelinaceae
<i>Crepidium purpureum</i> (Lindl.) Szlach.	Orchidaceae	<i>Cyanotis pilosa</i> Schult. & Schult.f.	Commelinaceae
<i>Crepidium resupinatum</i> (G.Forst.) Szlach.	Orchidaceae	<i>Cyanotis tuberosa</i> (Roxb.) Schult. & Schult.f.	Commelinaceae
<i>Crinum eleonora</i> Blatt. & McCann	Amoryllidaceae	<i>Cyathea andersonii</i> Copel.	Cyatheaceae
<i>Crotalaria acicularis</i> Benth.	Fabaceae	<i>Cyathea balakrishnani</i> R.D.Dixit & A.K. Tripathi	Cyatheaceae
<i>Crotalaria alata</i> D.Don	Fabaceae	<i>Cyathea chinensis</i> Copel.	Cyatheaceae
<i>Crotalaria angulata</i> Mill.	Fabaceae	<i>Cyathea gigantea</i> (Wall. ex Hook.) Holttum	Cyatheaceae
<i>Crotalaria barbata</i> Wight & Arn.	Fabaceae	<i>Cyathea khasyana</i> Domin	Cyatheaceae
<i>Crotalaria chinensis</i> L.	Fabaceae	<i>Cyathea latebrosa</i> (Wall. ex Hook.) Copel.	Cyatheaceae
<i>Crotalaria clarkei</i> Gamble	Fabaceae	<i>Cyathea nilgirensis</i> Holttum	Cyatheaceae
<i>Crotalaria clavata</i> Wight & Arn.	Fabaceae	<i>Cyathea spinulosa</i> Wall. ex Hook.	Cyatheaceae
<i>Crotalaria digitata</i> Hook.	Fabaceae	<i>Cyathocline lutea</i> law ex Wight	Asteraceae
<i>Crotalaria filipes</i> var. <i>trichophora</i> (Baker) T.Cooke	Fabaceae	<i>Cycas beddomei</i> Dyer	Cycadaceae
<i>Crotalaria formosa</i> Wight & Arn.	Fabaceae	<i>Cycas circinalis</i> L.	Cycadaceae
<i>Crotalaria fysonii</i> Dunn	Fabaceae	<i>Cycas nathorstii</i> J.Schust.	Cycadaceae
<i>Crotalaria globosa</i> Wight & Arn.	Fabaceae	<i>Cycas pectinata</i> Buch.-Ham.	Cycadaceae
<i>Crotalaria grahamiana</i> Wight & Arn.	Fabaceae	<i>Cycas sphaerica</i> Roxb.	Cycadaceae
<i>Crotalaria hirta</i> Willd.	Fabaceae	<i>Cycas zeylanica</i> (J.Schust.) A.Lindstr. & K.D.Hill	Cycadaceae
<i>Crotalaria laburnifolia</i> L.	Fabaceae	<i>Cyclea debiliflora</i> Miers	Menispermaceae
<i>Crotalaria longipes</i> Wight & Arn.	Fabaceae	<i>Cyclea fissicalyx</i> Dunn	Menispermaceae
<i>Crotalaria lutescens</i> Dalzell	Fabaceae		

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## Annexure 1. (Contd)

Species name	Family	Species name	Family
<i>Cyclea wattii</i> Diels	Menispermaceae	<i>Dalhousiea bracteata</i> (Roxb.) Benth.	Fabaceae
<i>Cyclogramma squamaestipes</i> Tagawa	Thelypteridaceae	<i>Dalzellia zeylandica</i> (Gardner) Wight	Podostemonaceae
<i>Cymbidium aloifolium</i> (L.) Sw.	Orchidaceae	<i>Danthonidium gammiei</i> (Bhide) C.E.Hubb	Poaceae
<i>Cymbidium bicolor</i> Lindl.	Orchidaceae	<i>Datisca cannabina</i> L.	Datisceae
<i>Cymbidium cochleare</i> Lindl.	Orchidaceae	<i>Debregeasia wallichiana</i> subsp. <i>ceylanica</i> (Hook.f.) Wilmot-Dear	Urticaceae
<i>Cymbidium cyperifolium</i> Wall. ex Lindl.	Orchidaceae	<i>Decalepis arayalpathra</i> (J. Joseph & V. Chandras.) Venter	Apocynaceae
<i>Cymbidium dayanum</i> Rchb.f.	Orchidaceae	<i>Decalepis hamiltonii</i> Wight & Arn.	Apocynaceae
<i>Cymbidium devonianum</i> Paxton	Orchidaceae	<i>Decaschistia crotonifolia</i> Wight & Arn.	Malvaceae
<i>Cymbidium eburneum</i> Lindl.	Orchidaceae	<i>Decaschistia rufa</i> Craib	Malvaceae
<i>Cymbidium elegans</i> Lindl.	Orchidaceae	<i>Decaschistia trilobata</i> Wight	Malvaceae
<i>Cymbidium ensifolium</i> (L.) Sw.	Orchidaceae	<i>Deeringia amaranthoides</i> (Lam.) Merr.	Amaranthaceae
<i>Cymbidium ensifolium</i> var. <i>munronianum</i> (King & Pantl.) T. Tang & F.T. Wang	Orchidaceae	<i>Delphinium denudatum</i> Wall. ex Hook.f. & Thomson	Ranunculaceae
<i>Cymbidium faberi</i> Rolfe	Orchidaceae	<i>Delphinium roylei</i> Munz	Ranunculaceae
<i>Cymbidium gammieanum</i> King & Pantl.	Orchidaceae	<i>Delphinium uncinatum</i> Hook.f. & Thomson	Ranunculaceae
<i>Cymbidium goeringii</i> (Rchb.f.) Rchb.f.	Orchidaceae	<i>Dendrobium acinaciforme</i> Roxb.	Orchidaceae
<i>Cymbidium hookerianum</i> Rchb.f.	Orchidaceae	<i>Dendrobium aduncum</i> Lindl.	Orchidaceae
<i>Cymbidium iridioides</i> D. Don	Orchidaceae	<i>Dendrobium amoenum</i> Wall. ex Lindl.	Orchidaceae
<i>Cymbidium lancifolium</i> Hook.	Orchidaceae	<i>Dendrobium amplum</i> Lindl.	Orchidaceae
<i>Cymbidium macrorhizon</i> Lindl.	Orchidaceae	<i>Dendrobium anamalayanum</i> Chandrab., V. Chandras. & N.C. Nair	Orchidaceae
<i>Cymbidium mastersii</i> Griff. ex Lindl.	Orchidaceae	<i>Dendrobium anceps</i> Sw.	Orchidaceae
<i>Cymbidium sinense</i> (Jacks.) Willd.	Orchidaceae	<i>Dendrobium angulatum</i> Lindl.	Orchidaceae
<i>Cymbidium tigrinum</i> C.S.P. Parish ex Hook.	Orchidaceae	<i>Dendrobium aphyllum</i> (Roxb.) C.E.C. Fisch.	Orchidaceae
<i>Cymbidium whiteae</i> King & Pantl.	Orchidaceae	<i>Dendrobium aqueum</i> Lindl.	Orchidaceae
<i>Cymbidium zaleskianum</i> L. Linden	Orchidaceae	<i>Dendrobium barbatulum</i> Lindl.	Orchidaceae
<i>Cymbopogon gidarba</i> (Buch.-Ham. ex Steud.) A. Camus	Poaceae	<i>Dendrobium bellatulum</i> Rolfe	Orchidaceae
<i>Cymbopogon pendulus</i> (Nees ex Steud.) W. Watson	Poaceae	<i>Dendrobium bensoniae</i> Rchb.f.	Orchidaceae
<i>Cymbopogon pospischilii</i> (K. Schum.) C.E. Hubb.	Poaceae	<i>Dendrobium bicameratum</i> Lindl.	Orchidaceae
<i>Cynanchum callialatum</i> Buch.-Ham. ex Wight	Asclepiadaceae	<i>Dendrobium brymerianum</i> Rchb.f.	Orchidaceae
<i>Cynodon barberi</i> Rang. & Tadul.	Poaceae	<i>Dendrobium capillipes</i> Rchb.f.	Orchidaceae
<i>Cynodon radiatus</i> Roth	Poaceae	<i>Dendrobium cariniferum</i> Rchb.f.	Orchidaceae
<i>Cynometra beddomei</i> Prain	Fabaceae	<i>Dendrobium chrysanthum</i> Wall. ex Lindl.	Orchidaceae
<i>Cynometra bourdillonii</i> Gamble	Fabaceae	<i>Dendrobium chryseum</i> Rolfe	Orchidaceae
<i>Cynometra travancorica</i> Bedd.	Fabaceae	<i>Dendrobium chrysotoxum</i> Lindl.	Orchidaceae
<i>Cyperus castaneus</i> Willd.	Cyperaceae	<i>Dendrobium clavatum</i> Lindley ex Wallich	Orchidaceae
<i>Cyperus corymbosus</i> Rottb.	Cyperaceae	<i>Dendrobium crepidatum</i> Lindl. & Paxton	Orchidaceae
<i>Cyperus digitatus</i> Roxb.	Cyperaceae	<i>Dendrobium crumenatum</i> Sw.	Orchidaceae
<i>Cyperus dubius</i> Rottb.	Cyperaceae	<i>Dendrobium cumulatum</i> Lindl.	Orchidaceae
<i>Cyperus kyllingiella</i> Larridon	Cyperaceae	<i>Dendrobium darjeelingense</i> Pradhan	Orchidaceae
<i>Cyperus nutans</i> Vahl	Cyperaceae	<i>Dendrobium denneanum</i> Kerr	Orchidaceae
<i>Cyperus papyrus</i> L.	Cyperaceae	<i>Dendrobium densiflorum</i> Lindl.	Orchidaceae
<i>Cyperus pulchellus</i> R.Br.	Cyperaceae	<i>Dendrobium denudans</i> D. Don	Orchidaceae
<i>Cypripedium cordigerum</i> D. Don	Orchidaceae	<i>Dendrobium devonianum</i> Paxton	Orchidaceae
<i>Cypripedium elegans</i> Rchb.f.	Orchidaceae	<i>Dendrobium dickasonii</i> L.O. Williams	Orchidaceae
<i>Cypripedium himalaicum</i> Rolfe	Orchidaceae	<i>Dendrobium draconis</i> Rchb.f.	Orchidaceae
<i>Cyrtococcum oxyphyllum</i> (Steud.) Stapf	Poaceae	<i>Dendrobium eriiflorum</i> Griff.	Orchidaceae
<i>Cyrtosia javanica</i> Blume	Orchidaceae	<i>Dendrobium falconeri</i> Hook.	Orchidaceae
<i>Dactyliandra welwitschii</i> Hook.f.	Cucurbitaceae	<i>Dendrobium farmeri</i> Paxton	Orchidaceae
<i>Dactylorhiza hatagirea</i> (D. Don) Soó	Orchidaceae	<i>Dendrobium fimbriatum</i> Hook.	Orchidaceae
<i>Dactylorhiza viridis</i> (L.) R.M. Bateman, Pridgeon & M.W. Chase.	Orchidaceae	<i>Dendrobium formosum</i> Roxb. ex Lindl.	Orchidaceae
<i>Dalbergia candenatensis</i> (Dennst.) Prain	Fabaceae	<i>Dendrobium fugax</i> Rchb.f.	Orchidaceae
<i>Dalbergia congesta</i> Wight & Arn.	Fabaceae	<i>Dendrobium gibsonii</i> Paxton	Orchidaceae
<i>Dalbergia gardneriana</i> Benth.	Fabaceae	<i>Dendrobium grande</i> Hook.f.	Orchidaceae
<i>Dalbergia horrida</i> (Dennst.) Mabb.	Fabaceae	<i>Dendrobium gratiosissimum</i> Rchb.f.	Orchidaceae
<i>Dalbergia pinnata</i> var. <i>acaciifolia</i> (Dalzell) Thoth.	Fabaceae	<i>Dendrobium griffithianum</i> Lindl.	Orchidaceae
<i>Dalbergia tinneveliensi</i> Thoth.	Fabaceae	<i>Dendrobium herbaceum</i> Lindl. y	Orchidaceae
<i>Dalechampia scandens</i> var. <i>cordofana</i> (Hochst. ex Webb) Müll. Arg.	Euphorbiaceae	<i>Dendrobium hesperis</i> (Seidenf.) Schuit. & Peter B. Adams	Orchidaceae
<i>Dalechampia stenoloba</i> Raghavan & B.G.P. Kulk.	Euphorbiaceae	<i>Dendrobium heterocarpum</i> Wall. ex Lindl.	Orchidaceae

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## Conservation of Threatened Plants of India

### Annexure 1. (Contd)

Species name	Family	Species name	Family
<i>Dendrobium heyneanum</i> Lindl.	Orchidaceae	<i>Desmodiastrum racemosum</i> (Benth.) A.Pramanik & Thoth.	Fabaceae
<i>Dendrobium hookerianum</i> Lindl.	Orchidaceae	<i>Desmodiastrum racemosum</i> var. <i>rotundifolium</i> (Baker) A.Pramanik & Thoth	Fabaceae
<i>Dendrobium infundibulum</i> Lindl.	Orchidaceae	<i>Desmodium barbatum</i> subsp. <i>saulierei</i> (Schindl.) H.Ohashi	Fabaceae
<i>Dendrobium jenkinsii</i> Wall. ex Lindl.	Orchidaceae	<i>Desmodium dolabriforme</i> Benth.	Fabaceae
<i>Dendrobium jerdonianum</i> Wight	Orchidaceae	<i>Desmodium ferrugineum</i> subsp. <i>wynaadense</i> (Gamble) H.Ohashi	Fabaceae
<i>Dendrobium kentrophyllum</i> Hook.f.	Orchidaceae	<i>Desmodium gangeticum</i> (L.) DC.	Fabaceae
<i>Dendrobium lindleyi</i> Steud.	Orchidaceae	<i>Desmodium heterophyllum</i> (Willd.) DC.	Fabaceae
<i>Dendrobium lituiflorum</i> Lindl.	Orchidaceae	<i>Desmodium oojeinense</i> (Roxb.) H.Ohashi	Fabaceae
<i>Dendrobium longicornu</i> Lindl.	Orchidaceae	<i>Desmodium rotundifolium</i> (Michx.) DC.	Fabaceae
<i>Dendrobium macrostachyum</i> Lind	Orchidaceae	<i>Desmodium tortuosum</i> (Sw.) DC.	Fabaceae
<i>Dendrobium mannii</i> Ridl.	Orchidaceae	<i>Desmos viridiflorus</i> Saff.	Annonaceae
<i>Dendrobium microbulbon</i> A.Rich.	Orchidaceae	<i>Dialium travancoricum</i> Bourd.	Fabaceae
<i>Dendrobium miserum</i> Rchb.f.	Orchidaceae	<i>Dianthus minimus</i> Javeiol	Caryophyllaceae
<i>Dendrobium moniliforme</i> (L.) Sw.	Orchidaceae	<i>Dicerna biarticulatum</i> (L.) DC.	Fabaceae
<i>Dendrobium monticola</i> P.F.Hunt & Summerh.	Orchidaceae	<i>Dichanthium armatum</i> (Hook.f.) Blatt. & McCann	Poaceae
<i>Dendrobium moschatum</i> (Buch.-Ham.) Sw.	Orchidaceae	<i>Dichanthium foveolatum</i> (Delile) Roberty	Poaceae
<i>Dendrobium nanum</i> Hook.f.	Orchidaceae	<i>Dichanthium mccannii</i> Blatt.	Poaceae
<i>Dendrobium nathanielis</i> Rchb.f.	Orchidaceae	<i>Dichanthium oliganthum</i> (Hochst. ex Steud.) Cope	Poaceae
<i>Dendrobium nobile</i> Lindl.	Orchidaceae	<i>Dichanthium panchganiense</i> Blatt. & McCann	Poaceae
<i>Dendrobium nodosum</i> Dalzell	Orchidaceae	<i>Dichanthium paranjpyeanum</i> (Bhide) Clayton	Poaceae
<i>Dendrobium ochreatum</i> Lindl.	Orchidaceae	<i>Dichanthium woodrowii</i> (Hook.f.) S.K.Jain & Deshp.	Poaceae
<i>Dendrobium ovatum</i> (L.) Kraenzl.l.	Orchidaceae	<i>Dichanthium armatum</i> (Hook.f.) Blatt. & McCann	Poaceae
<i>Dendrobium palpebrae</i> Lindl.	Orchidaceae	<i>Dichanthium mccannii</i> Blatt.	Poaceae
<i>Dendrobium parciflorum</i> Rchb.f. ex Lindl.	Orchidaceae	<i>Dichrocephala integrifolia</i> (L.f.) Kuntze	Asteraceae
<i>Dendrobium parishii</i> Rchb.f.	Orchidaceae	<i>Dicliptera abuensis</i> Blatt.	Acanthaceae
<i>Dendrobium peguanum</i> Lindl.l.	Orchidaceae	<i>Dicliptera beddomei</i> C.B.Clarke	Acanthaceae
<i>Dendrobium pendulum</i> Roxb.	Orchidaceae	<i>Dicliptera cuneata</i> Nees	Acanthaceae
<i>Dendrobium plicatile</i> Lindl.	Orchidaceae	<i>Dicliptera foetida</i> var. <i>ghatica</i> (Santapau) M.R.Almeida	Acanthaceae
<i>Dendrobium polyanthum</i> Wall. ex Lindl.	Orchidaceae	<i>Dicliptera nasikensis</i> Lakshmin. & B.D.Sharma	Acanthaceae
<i>Dendrobium porphyrochilum</i> Lindl.	Orchidaceae	<i>Dicranopteris linearis</i> (Burm. f.) Underw.	Dicranopteridaceae
<i>Dendrobium praecinctum</i> Rchb.f.	Orchidaceae	<i>Dicranostigma lactucoides</i> Hook.f. & Thomson	Papaveraceae
<i>Dendrobium pulchellum</i> Roxb. ex Lindl.	Orchidaceae	<i>Dictyospermum ovalifolium</i> Wight	Commelinaceae
<i>Dendrobium pycnostachyum</i> Lindl..	Orchidaceae	<i>Didymocarpus pedicellatus</i> R.Br.	Gesneriaceae
<i>Dendrobium regium</i> Prain	Orchidaceae	<i>Didymocarpus pygmaeus</i> C.B.Clarke	Gesneriaceae
<i>Dendrobium rhodocentrum</i> Rchb.f.	Orchidaceae	<i>Didymoplexis pallens</i> Griff.	Orchidaceae
<i>Dendrobium salaccense</i> (Blume) Lindl.	Orchidaceae	<i>Dienia ophrydis</i> (J.Koenig) Seidenf.	Orchidaceae
<i>Dendrobium secundum</i> (Blume) Lindl. ex Wall..	Orchidaceae	<i>Digitaria compacta</i> (Roth ex Roem. & Schult.) Veldkamp	Poaceae
<i>Dendrobium stuposum</i> Lindl.	Orchidaceae	<i>Digitaria violascens</i> Link	Poaceae
<i>Dendrobium sulcatum</i> Lindl.	Orchidaceae	<i>Diglyphosa latifolia</i> Blumel.	Orchidaceae
<i>Dendrobium tenuicaule</i> Hook.f.	Orchidaceae	<i>Dignathia hirtella</i> Stapf	Poaceae
<i>Dendrobium terminale</i> E.C.Parish & Rchb.f.	Orchidaceae	<i>Dillenia retusa</i> Thunb.	Dilleniaceae
<i>Dendrobium thyrsiflorum</i> B.S.Williams	Orchidaceae	<i>Dimeria avenacea</i> (Retz.) C.E.C.Fisch.	Poaceae
<i>Dendrobium tortile</i> Lindl.	Orchidaceae	<i>Dimeria blatteri</i> Bor	Poaceae
<i>Dendrobium transparens</i> Wall. ex Lindl.	Orchidaceae	<i>Dimeria hohenackeri</i> Hochst. ex Miq.	Poaceae
<i>Dendrobium treutleri</i> (Hook.f.) Schuit. & Peter B.Adams	Orchidaceae	<i>Dimeria lehmannii</i> (Steud.) Hack.	Poaceae
<i>Dendrobium wardianum</i> R.Warner	Orchidaceae	<i>Dimeria mahendragiriensis</i> Ravi, H.O.Saxena & Brahmam	Poaceae
<i>Dendrobium wightii</i> A.D. Hawkes & A.H. Heller	Orchidaceae	<i>Dimeria mooneyi</i> Raizada	Poaceae
<i>Dendrobium williamsonii</i> Day & Rchb.f.f.	Orchidaceae	<i>Dimeria ornithopoda</i> Trin.	Poaceae
<i>Dendrobium wattii</i> (Hook.f.) Rchb.f.	Orchidaceae	<i>Dimeria pubescens</i> Hack.	Poaceae
<i>Dendroglossa minutula</i> Copel.	Polypodiaceae	<i>Dimeria stapfiana</i> C.E.Hubb. ex Pilg.	Poaceae
<i>Dendrolobium triangulare</i> (Retz.) Schindl.	Fabaceae		
<i>Dennstaedtia elwesii</i> (Bedd.) Bedd.	Dennstaedtiaceae		
<i>Dentella repens</i> var. <i>serpyllifolia</i> (Wall. ex Craib) Verdc.	Rubiaceae		
<i>Derris benthamii</i> var. <i>wightii</i> (Baker) Thoth.	Fabaceae		
<i>Derris cuneifolia</i> Benth.	Fabaceae		
<i>Derris kanjilalii</i> K.C.Sahni & H.B.Naithani	Fabaceae		
<i>Derris macrocarpa</i> Thoth.	Fabaceae		
<i>Derris scandens</i> (Roxb.) Benth.	Fabaceae		
<i>Derris thothathrii</i> Bennet	Fabaceae		

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## Annexure 1. (Contd)

Species name	Family	Species name	Family
<i>Dimeria woodrowii</i> Stapf	Poaceae	<i>Drypetes andamanica</i> (Kurz) Pax & K.Hoffm.	Euphorbiaceae
<i>Dimorphocalyx beddomei</i> (Benth.) Airy Shaw	Euphorbiaceae	<i>Drypetes assamica</i> (Hook.f.) Pax & K.Hoffm.	Euphorbiaceae
<i>Dimorphocalyx glabellus</i> Thwaites	Euphorbiaceae	<i>Drypetes confertiflora</i> (Hook.f.) Pax & K.Hoffm.	Euphorbiaceae
<i>Dinebra retroflexa</i> (Vahl) Panz.	Poaceae	<i>Drypetes malabarica</i> (Bedd.) Airy Shaw	Euphorbiaceae
<i>Dioscorea alata</i> L.	Dioscoreaceae	<i>Drypetes porteri</i> (Gamble) Pax & K.Hoffm.	Putranjivaceae
<i>Dioscorea bulbifera</i> L.	Dioscoreaceae	<i>Dumasia villosa</i> DC.	Fabaceae
<i>Dioscorea deltoidea</i> Wall. ex Griseb.	Dioscoreaceae	<i>Dysolobium pilosum</i> (Willd.) Marechal	Fabaceae
<i>Dioscorea hispida</i> Dennst.	Dioscoreaceae	<i>Dysoxylum gotadhora</i> (Buch.-Ham.) Mabb.	Meliaceae
<i>Dioscorea pentaphylla</i> L.	Dioscoreaceae	<i>Dysoxylum malabaricum</i> Bedd. ex C.DC.	Meliaceae
<i>Dioscorea prazeri</i> Prain & Burkill	Dioscoreaceae	<i>Dysphania ambrosioides</i> (L.) Mosyakin & Clemants	Chenopodiaceae
<i>Dioscorea spicata</i> Roth	Dioscoreaceae	<i>Elaeagnus conferta</i> Roxb.	Elaeagnaceae
<i>Diospyros barberi</i> Ramaswami	Ebenaceae	<i>Elaeagnus rhamnoides</i> (L.) A.Nelson	Elaeagnaceae
<i>Diospyros cacharensis</i> (Das & P.C.Kanjilal) H.B.Naithani	Ebenaceae	<i>Elaeocarpus acuminatus</i> Wall. ex Mast.	Elaeocarpaceae
<i>Diospyros candolleana</i> Wight	Ebenaceae	<i>Elaeocarpus blascoi</i> Weibel	Elaeocarpaceae
<i>Diospyros hirsuta</i> L.f.	Ebenaceae	<i>Elaeocarpus gausseii</i> Weibel	Elaeocarpaceae
<i>Diospyros lanceifolia</i> Roxb.	Ebenaceae	<i>Elaeocarpus lanceifolius</i> Roxb.	Elaeocarpaceae
<i>Diospyros paniculata</i> Dalzell	Ebenaceae	<i>Elaeocarpus monocera</i> Cav.	Elaeocarpaceae
<i>Diospyros vera</i> (Lour.) A.Chev.	Ebenaceae	<i>Elaeocarpus munroii</i> Mast.	Elaeocarpaceae
<i>Diospyros candolleana</i> Wight	Ebenaceae	<i>Elaeocarpus prunifolius</i> Wall. ex Müll.Berol.	Elaeocarpaceae
<i>Dipcadi concanense</i> (Dalzell) Baker	Liliaceae	<i>Elaeocarpus recurvatus</i> Corner	Elaeocarpaceae
<i>Dipcadi erythraeum</i> Webb & Berthel.	Liliaceae	<i>Elaeocarpus serratus</i> L.	Elaeocarpaceae
<i>Dipcadi maharashtrense</i> Deb & S.Dasgupta	Liliaceae	<i>Elaeocarpus varunua</i> Buch.-Ham. ex Mast.	Elaeocarpaceae
<i>Dipcadi minor</i> Hook.f.	Liliaceae	<i>Elaphoglossum beddomei</i> Sledge	Elaphoglossaceae
<i>Dipcadi montanum</i> (Dalzell) Baker	Liliaceae	<i>Elaphoglossum nilgircum</i> Krajina ex Sledge	Elaphoglossaceae
<i>Dipcadi reidii</i> Deb & S.Dasgupta	Liliaceae	<i>Elaphoglossum stigmatolepis</i> (Fée) T. Moore	Elaphoglossaceae
<i>Dipcadi saxorum</i> Blatt.	Liliaceae	<i>Eleiotis monophyllos</i> (Burm.f.) DC.	Fabaceae
<i>Dipcadi ursulae</i> Blatt.	Liliaceae	<i>Eleiotis trifoliolata</i> T.Cooke	Fabaceae
<i>Dipcadi viride</i> (L.) Moench	Liliaceae	<i>Eleocharis geniculata</i> (L.) Roem. & Schult.	Cyperaceae
<i>Diplazium travancoricum</i> Bedd.	Athyriaceae	<i>Eleocharis palustris</i> (L.) Roem. & Schult.	Cyperaceae
<i>Diplocentrum congestum</i> Wight	Orchidaceae	<i>Eleocharis spiralis</i> (Rottb.) Roem. & Schult.	Cyperaceae
<i>Diploknema butyracea</i> (Roxb.) H.J.Lam	Sapotaceae	<i>Elsholtzia densa</i> Benth.	Lamiaceae
<i>Diplomeris hirsuta</i> (Lindl.) Lindl.	Orchidaceae	<i>Elymus duthiei</i> (Melderis) G.Singh	Poaceae
<i>Diplomeris pulchella</i> D.Don	Orchidaceae	<i>Embelia ribes</i> Burm.f.	Myrsinaceae
<i>Diploprora championii</i> (Lindl.) Hook.f.	Orchidaceae	<i>Embelia tsjeriam-cottam</i> (Roem. & Schult.) A.DC.	Myrsinaceae
<i>Dipterocarpus bourdillonii</i> Brandis	Dipterocarpaceae	<i>Entada phaseoloides</i> (L.) Merr.	Mimosaceae
<i>Dipterocarpus indicus</i> Bedd.	Dipterocarpaceae	<i>Entada rheedii</i> Spreng.	Fabaceae
<i>Dischidia bengalensis</i> Colebr.	Asclepiadaceae	<i>Ephedra foliata</i> Boiss. ex C.A.Mey.	Ephedraceae
<i>Dischidia major</i> (Vahl) Merr.	Asclepiadaceae	<i>Ephedra gerardiana</i> Wall. ex Stapf	Ephedraceae
<i>Dischidia nummularia</i> R.Br.	Asclepiadaceae	<i>Epigynum auritum</i> (C.K.Schneid.) Tsiang & P.T.Li	Apocynaceae
<i>Disperis monophylla</i> Blatt. ex C.E.C.Fisch.	Orchidaceae	<i>Epilobium angustifolium</i> L.	Onagraceae
<i>Disperis neilgherrensis</i> Wight	Orchidaceae	<i>Epilobium glaciale</i> P.H.Raven	Onagraceae
<i>Disporum calcaratum</i> D.Don	Liliaceae	<i>Epipogium aphyllum</i> Sw.	Orchidaceae
<i>Doellia bovei</i> (DC.) Anderb.	Asteraceae	<i>Epipogium roseum</i> (D.Don) Lindl.	Orchidaceae
<i>Draba altaica</i> (C.A.Mey.) Bunge	Brassicaceae	<i>Eragrostiella bifaria</i> (Vahl) Bor	Poaceae
<i>Draba tenerrima</i> O.E.Schulz	Brassicaceae	<i>Eragrostiella leioptera</i> (Stapf) Bor	Poaceae
<i>Draba winterbottomii</i> (Hook.f. & Thomson) Pohle	Brassicaceae	<i>Eragrostis mauiensis</i> Hitchc.	Poaceae
<i>Dracaena spicata</i> Roxb.	Agavaceae	<i>Eragrostis riparia</i> (Willd.) Nees	Poaceae
<i>Dracocephalum heterophyllum</i> Benth.	Lamiaceae	<i>Eragrostis rottleri</i> Stapf	Poaceae
<i>Dregea volubilis</i> (L.f.) Benth. ex Hook.f.	Asclepiadaceae	<i>Eragrostis viscosa</i> (Retz.) Trin.	Poaceae
<i>Drimia indica</i> (Roxb.) Jessop	Asparagaceae	<i>Eragrostis zeylanica</i> Nees & Meyen	Poaceae
<i>Drimia polyantha</i> (Blatt. & McCann) Stearn	Liliaceae	<i>Eria albiflora</i> Rolfe	Orchidaceae
<i>Drimia polyphylla</i> (Hook.f.) Ansari & Sundararagh.	Liliaceae	<i>Eria barbata</i> (Lindl.) Rchb.f.	Orchidaceae
<i>Drimia razii</i> Ansari	Liliaceae	<i>Eria exilis</i> Hook.f.	Orchidaceae
<i>Drimia wightii</i> Lakshmin.	Liliaceae	<i>Eria javanica</i> (Sw.) Blume	Orchidaceae
<i>Drosera burmanni</i> Vahl	Droseraceae	<i>Eria lasiopetala</i> (Willd.) Ormerod	Orchidaceae
<i>Drosera indica</i> L.	Droseraceae	<i>Eria occidentalis</i> Seidenf.	Orchidaceae
<i>Drosera peltata</i> Thunb.	Droseraceae	<i>Eria pauciflora</i> Wight	Orchidaceae
<i>Drymaria cordata</i> (L.) Willd. ex Schult.	Caryophyllaceae	<i>Eria pseudoclavicaulis</i> Blatt.	Orchidaceae
<i>Drynaria bonii</i> Christ	Polypodiaceae	<i>Erigeron aegyptiacus</i> L.	Asteraceae
		<i>Erinocarpus nimmonii</i> J.Graham	Tiliaceae

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## Conservation of Threatened Plants of India

### Annexure 1. (Contd)

Species name	Family	Species name	Family
<i>Eriocaulon barba-caprae</i> Fyson	Eriocaulaceae	<i>Euphorbia elegans</i> Spreng.	Euphorbiaceae
<i>Eriocaulon barbeyanum</i> Ruhland	Eriocaulaceae	<i>Euphorbia epiphyllodes</i> Kurz	Euphorbiaceae
<i>Eriocaulon cuspidatum</i> Dalzell	Eriocaulaceae	<i>Euphorbia fusiformis</i> Buch.-Ham. ex D.Don	Euphorbiaceae
<i>Eriocaulon echinulatum</i> Mart.	Eriocaulaceae	<i>Euphorbia fusiformis</i> var. <i>khandallensis</i> (Blatt. & Hallb.) Binojk. & N.P.Balacr.	Euphorbiaceae
<i>Eriocaulon eurypeplon</i> Körn.	Eriocaulaceae	<i>Euphorbia granulata</i> Forssk.	Euphorbiaceae
<i>Eriocaulon fysonii</i> R.Ansari & N.P.Balacr.	Eriocaulaceae	<i>Euphorbia helioscopia</i> L.	Euphorbiaceae
<i>Eriocaulon gregatum</i> Körn.	Eriocaulaceae	<i>Euphorbia heyneana</i> Spreng.	Euphorbiaceae
<i>Eriocaulon hamiltonianum</i> Mart.	Eriocaulaceae	<i>Euphorbia katrajensis</i> Gage	Euphorbiaceae
<i>Eriocaulon longicuspe</i> Hook.f.	Eriocaulaceae	<i>Euphorbia lacei</i> Craib	Euphorbiaceae
<i>Eriocaulon margaretae</i> Fyson	Eriocaulaceae	<i>Euphorbia lactea</i> Haw.	Euphorbiaceae
<i>Eriocaulon minutum</i> Hook.f.	Eriocaulaceae	<i>Euphorbia meenae</i> S.Carter	Euphorbiaceae
<i>Eriocaulon nepalense</i> Prescott ex Bong.	Eriocaulaceae	<i>Euphorbia nana</i> Royle	Euphorbiaceae
<i>Eriocaulon pumilio</i> Hook.f.	Eriocaulaceae	<i>Euphorbia nerifolia</i> L.	Euphorbiaceae
<i>Eriocaulon quinquangulare</i> L.	Eriocaulaceae	<i>Euphorbia nivulia</i> Buch.-Ham.	Euphorbiaceae
<i>Eriocaulon rouxianum</i> Steud.	Eriocaulaceae	<i>Euphorbia perbracteata</i> Gage	Euphorbiaceae
<i>Eriocaulon robustobrownianum</i> Ruhland	Eriocaulaceae	<i>Euphorbia prostrata</i> Aiton	Euphorbiaceae
<i>Eriochrysis rangacharii</i> C.E.C.Fisch.	Poaceae	<i>Euphorbia royleana</i> Boiss.	Euphorbiaceae
<i>Eriolaena candollei</i> Wall.	Malvaceae	<i>Euphorbia santapau</i> A.N.Henry	Euphorbiaceae
<i>Eriolaena lushingtonii</i> Dunn	Sterculiaceae	<i>Euphorbia sebastinei</i> Binojk. & N.P.Balacr.	Euphorbiaceae
<i>Eriolaena quinquelocularis</i> (Wight & Arn.) Wight	Sterculiaceae	<i>Euphorbia susan-holmesiae</i> Binojk. & Gopalan	Euphorbiaceae
<i>Eriolaena stocksii</i> Hook.f. & Thomson ex Mast.	Eriocaulaceae	<i>Euphorbia tirucalli</i> L.	Euphorbiaceae
<i>Eriosema himalaicum</i> H.Ohashi	Fabaceae	<i>Euphorbia vajravelui</i> Binojk. & N.P.Balacr.n	Euphorbiaceae
<i>Eritrichium nanum</i> (L.) Schrad. ex Gaudin	Boraginaceae	<i>Euphorbia tortilis</i> Rottler ex Ainslie	Euphorbiaceae
<i>Erysimum robustum</i> D.Don	Brassicaceae	<i>Euploca rariflora</i> (Stocks) Diane & Hilger	Boraginaceae
<i>Erythrina fusca</i> Lour.	Fabaceae	<i>Eurya nitida</i> Korth.	Theaceae
<i>Erythrina resupinata</i> Roxb.	Fabaceae	<i>Evolvulus alsinoides</i> (L.) L.	Convolvulaceae
<i>Erythrina suberosa</i> Roxb.	Fabaceae	<i>Exacum lawii</i> C.B.Clarke	Gentianaceae
<i>Erythralium scandens</i> Blume	Erythraliaceae	<i>Exacum tetragonum</i> Roxb.	Gentianaceae
<i>Esmeralda clarkei</i> Rehb.f.	Orchidaceae	<i>Fagonia cretica</i> L.	Zygophyllaceae
<i>Euclasta clarkei</i> (Hack.) Cope	Poaceae	<i>Farsetia macrantha</i> Blatt. & Hallb.	Brassicaceae
<i>Eugenia argentea</i> Bedd.	Myrtaceae	<i>Ferula jaeschkeana</i> Vatke	Apiaceae
<i>Eugenia discifera</i> Gamble	Myrtaceae	<i>Ferula narthex</i> Boiss.	Apiaceae
<i>Eugenia floccosa</i> Bedd.	Myrtaceae	<i>Ferula ovina</i> (Boiss.) Boiss.	Apiaceae
<i>Eugenia singampattiana</i> Bedd.	Myrtaceae	<i>Ferula thomsonii</i> C.B. Clarke	Apiaceae
<i>Eugenia cotinifolia</i> Jacq.	Myrtaceae	<i>Fessia hohenackeri</i> (Fisch. & C.A.Mey.) Speta	Hyacinthaceae
<i>Eugenia singampattiana</i> Bedd.	Myrtaceae	<i>Festuca levingei</i> Stapf	Poaceae
<i>Eulalia contorta</i> (Brongn.) Kuntze	Poaceae	<i>Festuca lucida</i> Stapf	Poaceae
<i>Eulalia hirtifolia</i> (Hack.) A.Camus	Poaceae	<i>Ficus alongensis</i> Gagnep.	Moraceae
<i>Eulophia bicallosa</i> (D.Don) P.F.Hunt & Summerh.	Orchidaceae	<i>Ficus andamanica</i> Corner	Moraceae
<i>Eulophia dabia</i> (D.Don) Hochr.	Orchidaceae	<i>Ficus cupulata</i> Haines	Moraceae
<i>Eulophia explanata</i> Lindl.	Orchidaceae	<i>Ficus nervosa</i> B.Heyne ex Roth	Moraceae
<i>Eulophia flava</i> (Lindl.) Hook.f.	Orchidaceae	<i>Ficus racemosa</i> L.	Moraceae
<i>Eulophia graminea</i> Lindl.	Orchidaceae	<i>Ficus tinctoria</i> G.Forst.	Moraceae
<i>Eulophia herbacea</i> Lindl.	Orchidaceae	<i>Ficus cupulata</i> Haines	Moraceae
<i>Eulophia mackinnonii</i> Duthie	Orchidaceae	<i>Fimbristylis alboboviridis</i> C.B.Clarke	Cyperaceae
<i>Eulophia mannii</i> (Rehb.f.) Hook.f.	Orchidaceae	<i>Fimbristylis argentea</i> (Rottb.) Vahl	Cyperaceae
<i>Eulophia nicobarica</i> N.P.Balacr. & N.G.Nair	Orchidaceae	<i>Fimbristylis cinnamometorum</i> (Vahl) Kunth	Cyperaceae
<i>Eulophia nuda</i> Lindl.	Orchidaceae	<i>Fimbristylis complanata</i> (Retz.) Link	Cyperaceae
<i>Eulophia obtusa</i> (Lindl.) Hook.f.	Orchidaceae	<i>Fimbristylis eragrostis</i> (Nees) Hance	Cyperaceae
<i>Eulophia ochreatea</i> Lindl.	Orchidaceae	<i>Fimbristylis ferruginea</i> (L.) Vahl	Cyperaceae
<i>Eulophia pratensis</i> Lindl.	Orchidaceae	<i>Fimbristylis hookeriana</i> Boeckeler	Cyperaceae
<i>Eulophia pulchra</i> (Thouars) Lindl.	Orchidaceae	<i>Fimbristylis intonsa</i> S.T.Blake	Cyperaceae
<i>Euonymus angulatus</i> Wight	Celastraceae	<i>Fimbristylis sericea</i> (Poir.) R.Br.	Cyperaceae
<i>Euonymus bullatus</i> Wall. ex Lodd	Celastraceae	<i>Fimbristylis squarrosa</i> Vahl	Cyperaceae
<i>Euonymus frigidus</i> Wall.	Celastraceae	<i>Fimbristylis stolonifera</i> C.B.Clarke	Cyperaceae
<i>Euonymus serratifolius</i> Bedd.	Celastraceae	<i>Fimbristylis tristachya</i> R.Br.	Cyperaceae
<i>Euphorbia antiquorum</i> L.	Euphorbiaceae	<i>Firmiana colorata</i> (Roxb.) R.Br.	Sterculiaceae
<i>Euphorbia caducifolia</i> Haines	Euphorbiaceae	<i>Firmiana simplex</i> (L.) W.Wight	Sterculiaceae
<i>Euphorbia cattimandoo</i> Elliot ex Wight	Euphorbiaceae	<i>Flacourtia helferi</i> Gamble ex Ridl.	Flacourtiaceae
<i>Euphorbia cristata</i> B.Heyne ex Roth	Euphorbiaceae	<i>Flagellaria indica</i> L.	Flagellariaceae
		<i>Flemingia gracilis</i> (Mukerjee) Ali	Fabaceae

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## Annexure 1. (Contd)

Species name	Family	Species name	Family
<i>Flemingia grahamiana</i> Wight & Arn.	Fabaceae	<i>Glossostigma diandrum</i> (L.) Kuntze	Scrophulariaceae
<i>Flemingia nilgherensis</i> (Baker) T. Cooke	Fabaceae	<i>Gluta travancorica</i> Bedd.	Anacardiaceae
<i>Flemingia procumbens</i> Roxb.	Fabaceae	<i>Glycosmis macrocarpa</i> Wight	Rutaceae
<i>Flemingia prostrata</i> Roxb.	Fabaceae	<i>Glycosmis pentaphylla</i> (Retz.) DC.	Rutaceae
<i>Flemingia stricta</i> Roxb.	Fabaceae	<i>Glyphochloa acuminata</i> (Hack) W.D. Clayton	Poaceae
<i>Flemingia wightiana</i> Wight & Arn.	Fabaceae	<i>Glyphochloa divergens</i> (Hack.) Clayton	Poaceae
<i>Frerea indica</i> Dalzell	Asclepiadaceae	<i>Glyphochloa santapau</i> (S.K. Jain & Deshp.) Clayton	Poaceae
<i>Fritillaria cirrhosa</i> D. Don	Liliaceae	<i>Glyphochloa talbotii</i> (Hook.f.) Clayton	Poaceae
<i>Fumaria indica</i> (Hausskn.) Pugsley	Papaveraceae	<i>Gnetum montanum</i> Markgr.	Gnetaceae
<i>Galactia tenuiflora</i> (Willd.) Wight & Arn.	Fabaceae	<i>Gnetum oblongum</i> Markgr.	Gnetaceae
<i>Galearis spathulata</i> (Lindl.) P.F. Huntt	Orchidaceae	<i>Gnetum ula</i> Brongn.	Gnetaceae
<i>Galeola cathcartii</i> Hook.f. f.	Orchidaceae	<i>Gomphandra comosa</i> King	Icaciniaceae
<i>Galeola falconeri</i> Hook.f.	Orchidaceae	<i>Goniothalamus rhynchantherus</i> Dunn	Annonaceae
<i>Galeola lindleyana</i> (Hook.f. & Thomson) Rchb.f.	Orchidaceae	<i>Goniothalamus simonsii</i> Hook.f. & Thomson	Annonaceae
<i>Galeola nudifolia</i> Lour.	Orchidaceae	<i>Goniothalamus thwaitesii</i> Hook.f. & Thomson	Annonaceae
<i>Galinsoga parviflora</i> Cav.	Asteraceae	<i>Goniothalamus wynaadensis</i> (Bedd.) Bedd.	Annonaceae
<i>Galium spurium</i> L.	Rubiaceae	<i>Goodyera biflora</i> (Lindl.) Hook.f.	Orchidaceae
<i>Garcinia cadelliana</i> King	Clusiaceae	<i>Goodyera procera</i> (Ker Gawl.) Hook.	Orchidaceae
<i>Garcinia celebica</i> L.	Clusiaceae	<i>Goodyera recurva</i> Lindl.	Orchidaceae
<i>Garcinia cowa</i> Roxb. ex Choisy	Clusiaceae	<i>Goodyera thailandica</i> Seidenf.	Orchidaceae
<i>Garcinia gummi-gutta</i> (L.) Roxb.	Clusiaceae	<i>Goodyera viridiflora</i> (Blume) Blumeok.f.	Orchidaceae
<i>Garcinia imbertii</i> Bourd.	Clusiaceae	<i>Gouania tiliifolia</i> Lam.	Rhamnaceae
<i>Garcinia indica</i> (Thouars) Choisy	Clusiaceae	<i>Grewia eriocarpa</i> Juss.	Malvaceae
<i>Garcinia mannii</i> Oliv.	Clusiaceae	<i>Grewia flavescens</i> Juss.	Malvaceae
<i>Garcinia morella</i> (Gaertn.) Desr.	Clusiaceae	<i>Grewia sapida</i> Roxb. ex DC.	Tiliaceae
<i>Garcinia pedunculata</i> Roxb. ex Buch.-Ham.	Clusiaceae	<i>Gymnacranthera canarica</i> (King) Warb.	Myristicaceae
<i>Garcinia rubroechinata</i> Kosterm.	Clusiaceae	<i>Gymnadenia orchidis</i> Lindl.	Orchidaceae
<i>Garcinia talbotii</i> Raizada ex Santapau	Clusiaceae	<i>Gymnema cuspidatum</i> (Thunb.) Kuntze	Asclepiadaceae
<i>Garcinia travancorica</i> Bedd.	Clusiaceae	<i>Gymnema khandalense</i> Santapau	Asclepiadaceae
<i>Garcinia xanthochymus</i> Hook.f. ex T. Anderson	Clusiaceae	<i>Gymnema montanum</i> Hook.f.	Apocynaceae
<i>Gardenia gummifera</i> L.f.	Rubiaceae	<i>Gymnema sylvestre</i> (Retz.) R.Br. ex Sm.	Asclepiadaceae
<i>Gardenia resinifera</i> Roth	Rubiaceae	<i>Gymnocladus assamicus</i> P.C. Kanjilal	Leguminosae
<i>Garnotia arborum</i> Stapf ex Woodrow	Poaceae	<i>Gymnosporia senegalensis</i> (Lam.) Loes.	Celastraceae
<i>Garnotia tenella</i> (Arn. ex Miq.) Janowski	Poaceae	<i>Gynocardia odorata</i> R.Br.	Flacourtiaceae
<i>Gastrochilus dasyogon</i> (Sm.) Kuntze	Orchidaceae	<i>Gynura lycopersicifolia</i> DC.	Asteraceae
<i>Gastrochilus distichus</i> (Lindl.) Kuntze	Orchidaceae	<i>Gynura nitida</i> DC.	Asteraceae
<i>Gastrochilus flabelliformis</i> (Blatt. & McCann) C.J. Saldanha	Orchidaceae	<i>Gyrinops walla</i> Gaertn.	Thymelaeaceae
<i>Gastrochilus inconspicuus</i> (Hook.f.) Kuntze	Orchidaceae	<i>Habenaria andamanica</i> Hook.f.	Orchidaceae
<i>Gastrodia dyeriana</i> King & Pantl.	Orchidaceae	<i>Habenaria barbata</i> Wight ex Hook.f.	Orchidaceae
<i>Gastrodia elata</i> Blume	Orchidaceae	<i>Habenaria barnesii</i> Summerh. ex C.E.C. Fisch.	Orchidaceae
<i>Gastrodia exilis</i> Hook.f.	Orchidaceae	<i>Habenaria brachyphylla</i> (Lindl.) Aitch.	Orchidaceae
<i>Gentiana cachemirica</i> Decne.	Gentianaceae	<i>Habenaria caranjensis</i> Dalz.	Orchidaceae
<i>Gentiana crassuloides</i> Bureau & Franch.	Gentianaceae	<i>Habenaria cephalotes</i> Lindl.	Orchidaceae
<i>Gentiana infelix</i> C.B. Clarke	Gentianaceae	<i>Habenaria dentata</i> (Sw.) Schltr.	Orchidaceae
<i>Gentiana kurroo</i> Royle	Gentianaceae	<i>Habenaria denticulata</i> Rchb.f.	Orchidaceae
<i>Gentiana quadriflora</i> Blume	Gentianaceae	<i>Habenaria digitata</i> Lindl.	Orchidaceae
<i>Gentiana saginoides</i> Burkill	Gentianaceae	<i>Habenaria diphylla</i> (Nimmo) Dalzell	Orchidaceae
<i>Gentiana leucomelaena</i> Maxim.	Gentianaceae	<i>Habenaria elliptica</i> Wight	Orchidaceae
<i>Geodorum densiflorum</i> (Lam.) Schltr.	Orchidaceae	<i>Habenaria elwesii</i> Hook.f.	Orchidaceae
<i>Gigantochloa hasskarliana</i> (Kurz) Backer	Poaceae	<i>Habenaria flabelliformis</i> Summerh. ex C.E.C. Fisch.	Orchidaceae
<i>Ginallia andamanica</i> Kurz	Viscaceae	<i>Habenaria furcifera</i> Lindl.	Orchidaceae
<i>Gleditsia assamica</i> Bor	Fabaceae	<i>Habenaria heyneana</i> Lindl.	Orchidaceae
<i>Globba orixensis</i> Roxb.	Zingiberaceae	<i>Habenaria intermedia</i> D. Don	Orchidaceae
<i>Globba wengeri</i> (C.E.C. Fisch.) K.J. Williams	Zingiberaceae	<i>Habenaria longicorniculata</i> J. Graham	Orchidaceae
<i>Glochidion bourdillonii</i> Gamble	Euphorbiaceae	<i>Habenaria longicornu</i> Lindl.	Orchidaceae
<i>Glochidion ellipticum</i> Wight	Euphorbiaceae	<i>Habenaria malleifera</i> Hook.f.	Orchidaceae
<i>Glochidion lanceolarium</i> (Roxb.) Voigt	Euphorbiaceae	<i>Habenaria multicaudata</i> Sedgw.	Orchidaceae
<i>Glochidion sphaerogynum</i> (Müll. Arg.) Kurz	Euphorbiaceae	<i>Habenaria pallideviridis</i> Seidenf. ex K.M. Matthew	Orchidaceae
<i>Glochidion zeylanicum</i> (Gaertn.) A. Juss.	Euphorbiaceae	<i>Habenaria panchganiensis</i> Santapau & Kapadia	Orchidaceae
<i>Gloriosa superba</i> L.	Colchicaceae	<i>Habenaria panigrahiana</i> S. Misra	Orchidaceae
<i>Glossocardia bidens</i> (Retz.) Veldkamp	Asteraceae		

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## Conservation of Threatened Plants of India

### Annexure 1. (Contd)

Species name	Family	Species name	Family
<i>Habenaria periyarensis</i> Sasidh., K.P.Rajesh & Augustine	Orchidaceae	<i>Heracleum jacquemontii</i> C.B.Clarke	Apiaceae
<i>Habenaria perrottetiana</i> A.Rich.	Orchidaceae	<i>Heracleum lanatum</i> Michx.	Apiaceae
<i>Habenaria polyodon</i> Hook.f.	Orchidaceae	<i>Heracleum nepalense</i> D. Don	Apiaceae
<i>Habenaria pubescens</i> Lindl.	Orchidaceae	<i>Heracleum rigens</i> Wall. ex DC.	Apiaceae
<i>Habenaria ramayana</i> Ram.Chary & J.J.Wood	Orchidaceae	<i>Heracleum thomsonii</i> C.B.Clarke	Apiaceae
<i>Habenaria rariflora</i> A.Rich.	Orchidaceae	<i>Heritiera fomes</i> Buch.-Ham.	Sterculiaceae
<i>Habenaria richardiana</i> Wight	Orchidaceae	<i>Heritiera kanikensis</i> Majumdar & L.K.Banerjee	Sterculiaceae
<i>Habenaria roxburghii</i> Nicolson	Orchidaceae	<i>Herminium jaffreyanum</i> King & Pantl.	Orchidaceae
<i>Habenaria stocksii</i> Hook.f.	Orchidaceae	<i>Herminium longilobatum</i> S.N.Hegde & A.N.Rao	Orchidaceae
<i>Habenaria suaveolens</i> Dalzell	Orchidaceae	<i>Herminium mackinsonii</i> Duthie	Orchidaceae
<i>Habenaria trifurcata</i> Hook.f.	Orchidaceae	<i>Herminium quinquelobum</i> King & Pantl.ntl.	Orchidaceae
<i>Habenaria foliosa</i> A.Rich.	Orchidaceae	<i>Hetaeria oblongifolia</i> Blume	Orchidaceae
<i>Habenaria grandifloriformis</i> Blatt. & McCann	Orchidaceae	<i>Heteropogon polystachyus</i> (Roxb.) Schult.	Poaceae
<i>Habenaria richardiana</i> Wight	Orchidaceae	<i>Heteropogon ritchei</i> (Hook.f.) Blatt. & McCann	Poaceae
<i>Halophila beccarii</i> Asch.	Hydrocharitaceae	<i>Heteropogon triticeus</i> (R.Br.) Stapf ex Craib	Poaceae
<i>Halosarcia indica</i> (Willd.) Paul G.Wilson	Chenopodiaceae	<i>Heterostemma decanense</i> (Talbot) Swarupan. & Mangaly	Asclepiadaceae
<i>Haplothysmia exannulata</i> Airy Shaw	Burmanniaceae	<i>Heterostemma tanjorensis</i> Wight & Arn.	Asclepiadaceae
<i>Hedychium calcaratum</i> A.S.Rao & D.M.Verma	Zingiberaceae	<i>Heterostemma urceolatum</i> Dalzell	Asclepiadaceae
<i>Hedychium coronarium</i> J.Koenig	Zingiberaceae	<i>Heynea trijuga</i> Roxb. ex Sims	Meliaceae
<i>Hedychium forrestii</i> Diels	Zingiberaceae	<i>Hibiscus fragrans</i> Roxburgh	Malvaceae
<i>Hedychium gracillimum</i> A.S.Rao & D.M.Verma	Zingiberaceae	<i>Hibiscus hoshiarpurensis</i> T.K.Paul & M.P.Nayar	Malvaceae
<i>Hedychium gratum</i> Wall. ex Voigt	Zingiberaceae	<i>Hibiscus platanifolius</i> (Willd.) Sweet	Malvaceae
<i>Hedychium greenii</i> W.W.Sm.	Zingiberaceae	<i>Hibiscus surattensis</i> L.	Malvaceae
<i>Hedychium longipedunculatum</i> Sastry & D.M.Verma	Zingiberaceae	<i>Hildegardia populifolia</i> Schott & Endl.	Sterculiaceae
<i>Hedychium marginatum</i> C.B.Clarke	Zingiberaceae	<i>Hippocratea andamanica</i> King	Hippocrateaceae
<i>Hedychium rubrum</i> A.S.Rao & D.M.Verma	Zingiberaceae	<i>Hippophae salicifolia</i> D.Don	Elaeagnaceae
<i>Hedychium spicatum</i> Sm.	Zingiberaceae	<i>Holboellia latifolia</i> Wall.	Lardizabalaceae
<i>Hedychium thyriforme</i> Sm.	Zingiberaceae	<i>Holigarna beddomei</i> Hook.f.	Anacardiaceae
<i>Hedyotis albonerva</i> Bedd.	Rubiaceae	<i>Holostemma ada-kodien</i> Schult.	Asclepiadaceae
<i>Hedyotis barberi</i> (Gamble) A.N.Henry & Subr.	Rubiaceae	<i>Homalium nepalense</i> Benth.	Flacourtiaceae
<i>Hedyotis beddomei</i> Hook.f.	Rubiaceae	<i>Homalomena aromatica</i> (Spreng.) Schott	Araceae
<i>Hedyotis bourdillonii</i> (Gamble) R.S.Rao & Hemadri	Rubiaceae	<i>Hopea canarensis</i> Hole	Dipterocarpaceae
<i>Hedyotis buxifolia</i> Bedd.	Rubiaceae	<i>Hopea erosa</i> (Bedd.) Slooten	Dipterocarpaceae
<i>Hedyotis cyanantha</i> Kurz	Rubiaceae	<i>Hopea jacobi</i> C.E.C.Fisch.	Dipterocarpaceae
<i>Hedyotis devicolamensis</i> Deb & R.M.Dutta	Rubiaceae	<i>Hopea odorata</i> Roxb.	Dipterocarpaceae
<i>Hedyotis eualata</i> (Gamble) A.N.Henry & Subr.	Rubiaceae	<i>Hopea racophloea</i> Dyer	Dipterocarpaceae
<i>Hedyotis fruticosa</i> L.	Rubiaceae	<i>Hoya alexicaca</i> (Jacq.) Moon	Asclepiadaceae
<i>Hedyotis hirsutissima</i> Bedd.	Rubiaceae	<i>Hoya kanyakumariana</i> A.N.Henry & Swamin.	Apocynaceae
<i>Hedyotis ramarowii</i> (Gamble) R.S.Rao & Hemadri	Rubiaceae	<i>Hoya lobbii</i> Hook.f.	Asclepiadaceae
<i>Hedyotis swertioides</i> Hook.f.	Rubiaceae	<i>Hoya wightii</i> Hook.f.	Asclepiadaceae
<i>Hedysarum astragaloides</i> Benth.	Fabaceae	<i>Hubbardia heptaneuron</i> Bor	Poaceae
<i>Hedysarum cachemirianum</i> Baker	Fabaceae	<i>Hugonia belli</i> Sedgw.	Linaceae
<i>Hedysarum microcalyx</i> Baker	Fabaceae	<i>Humboldtia bourdillonii</i> Prain	Fabaceae
<i>Helichrysum cutchicum</i> (C.B.Clarke) R.S.Rao & Deshp.	Asteraceae	<i>Humboldtia decurrens</i> Oliv.	Fabaceae
<i>Helichrysum perlanigerum</i> Gamble	Asteraceae	<i>Humboldtia laurifolia</i> M.Vahl	Fabaceae
<i>Heliotropium bacciferum</i> Forssk.	Boraginaceae	<i>Humboldtia trijuga</i> (Bedd.) M. Mohanan	Fabaceae
<i>Heliotropium calcareum</i> Stocks	Boraginaceae	<i>Humboldtia unijuga</i> Bedd. var. <i>unijuga</i>	Fabaceae
<i>Heliotropium keralense</i> Sivarajan & Manilal	Boraginaceae	<i>Humboldtia vahliana</i> Wight	Fabaceae
<i>Helminthostachys zeylanica</i> (L.) Hook.	Ophioglossaceae	<i>Huodendron biaristatum</i> (W.W. Sm.) Rehder	Styracaceae
<i>Hemigraphis venosa</i> C.B.Clarke	Acanthaceae	<i>Hybanthus travancoricus</i> Melch.	Violaceae
<i>Hemipilia cordifolia</i> Lindl.	Orchidaceae	<i>Hydnocarpus alpina</i> Wight	Flacourtiaceae
<i>Henckelia missionis</i> (Wall. ex R.Br.) A. Weber & B.L.Burtt	Gesneriaceae	<i>Hydnocarpus kurzii</i> (King) Warb.	Flacourtiaceae
<i>Heracleum aquilegifolium</i> C.B.Clarke	Apiaceae	<i>Hydnocarpus macrocarpa</i> Warb.	Flacourtiaceae
<i>Heracleum candicans</i> Wall. ex DC.	Apiaceae	<i>Hydnocarpus pentandrus</i> (Buch.-Ham.) Oken	Flacourtiaceae
<i>Heracleum candolleianum</i> Gamble	Apiaceae	<i>Hydrilla verticillata</i> (L.f.) Royle	Hydrocharitaceae
<i>Heracleum dalgadianum</i> S.M.Almeida	Apiaceae	<i>Hydrobryopsis sessilis</i> (Willis) Engl.	Podostemaceae
		<i>Hydrocera triflora</i> (L.) Wight & Arn.	Balsaminaceae
		<i>Hydrocotyle conferta</i> Wight	Apiaceae
		<i>Hygrophila erecta</i> (Burm.f.) Hochr.	Acanthaceae
		<i>Hygrophila heinei</i> Sreem.	Acanthaceae
		<i>Hygrophila pinnatifida</i> (Dalzell) Sreem.	Acanthaceae

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## Annexure 1. (Contd)

Species name	Family	Species name	Family
<i>Hymenachne amplexicaulis</i> (Rudge) Nees	Poaceae	<i>Inula kalapani</i> C.B.Clarke	Asteraceae
<i>Hymenophyllum levingei</i> C.B. Clarke	Hymenophyllaceae	<i>Inula racemosa</i> Hook. f.	Asteraceae
<i>Hyoscyamus niger</i> L.	Solanaceae	<i>Iphigenia pallida</i> Baker	Liliaceae
<i>Hypericum gaitii</i> Haines	Hypericaceae	<i>Iphigenia sahyadrica</i> Ansari & R.S.Rao	Liliaceae
<i>Hypericum humifusum</i> L.	Hypericaceae	<i>Iphigenia stellata</i> Blatt.	Liliaceae
<i>Hypericum japonicum</i> Thunb.	Hypericaceae	<i>Iphigenia magnifica</i> Ansari & R.S.Rao	Liliaceae
<i>Hypericum perforatum</i> L.	Hypericaceae	<i>Ipomoea biflora</i> (L.) Pers.	Convolvulaceae
<i>Hyphaene dichotoma</i> (White) Furtado	Arecaceae	<i>Ipomoea clarkei</i> Hook.f.	Convolvulaceae
<i>Hyphaene thebaica</i> (L.) Mart.	Arecaceae	<i>Ipomoea dichroa</i> Choisy	Convolvulaceae
<i>Hypoestes andamanensis</i> Thoth.	Acanthaceae	<i>Ipomoea indica</i> (Burm.) Merr.	Convolvulaceae
<i>Hypoestes lanata</i> Dalzell	Acanthaceae	<i>Ipomoea kotschyana</i> Hochst. ex Choisy	Convolvulaceae
<i>Hyptianthera stricta</i> (Roxb. ex Schult.) Wight & Arn.	Rubiaceae	<i>Ipomoea mauritiana</i> Jacq.	Convolvulaceae
<i>Hyptis sidifolia</i> (L'Hér.) Briq.	Lamiaceae	<i>Ipomoea salsettensis</i> Santapau & V.Patel	Convolvulaceae
<i>Hyssopus officinalis</i> L.	Lamiaceae	<i>Ipomoea vagans</i> Baker	Convolvulaceae
<i>Ilex embelioides</i> Hook.f.	Aquifoliaceae	<i>Ipsea malabarica</i> (Reichb. f.) Hook. f.	Orchidaceae
<i>Ilex gardneriana</i> Wight	Aquifoliaceae	<i>Iris kemaonensis</i> Wall. ex D.Don	Iridaceae
<i>Ilex khasiana</i> Purkay.	Aquifoliaceae	<i>Iris milesii</i> Baker ex Foster	Iridaceae
<i>Ilex venulosa</i> Hook.f.	Aquifoliaceae	<i>Isachne borii</i> Hemadri	Poaceae
<i>Illicium griffithii</i> Hook.f. & Thomson	Illiciaceae	<i>Isachne fischeri</i> Bor	Poaceae
<i>Illigera appendiculata</i> Blume	Hernandiaceae	<i>Isachne lisboae</i> Hook.f.	Poaceae
<i>Impatiens acaulis</i> Arn.	Balsaminaceae	<i>Isachne mysorensis</i> Sundararagh.	Poaceae
<i>Impatiens anaimudica</i> C.E.C.Fisch.	Balsaminaceae	<i>Isachne setosa</i> C.E.C.Fisch.	Poaceae
<i>Impatiens auriculata</i> Wight	Balsaminaceae	<i>Ischaemum bombaiense</i> Bor	Poaceae
<i>Impatiens barberi</i> Hook.f.	Balsaminaceae	<i>Ischaemum kingii</i> Hook.f.	Poaceae
<i>Impatiens dasysperma</i> Wight	Balsaminaceae	<i>Ischaemum polystachyum</i> J.Presl	Poaceae
<i>Impatiens dendricola</i> C.E.C.Fisch.	Balsaminaceae	<i>Ischaemum ritchiei</i> Stapf ex Bor	Poaceae
<i>Impatiens jaeschkei</i> Hook.f.	Balsaminaceae	<i>Ischaemum santapau</i> Bor	Poaceae
<i>Impatiens johnii</i> E.Barnes	Balsaminaceae	<i>Ischaemum thomsonianum</i> Stapf ex C.E.C.Fisch.	Poaceae
<i>Impatiens langeana</i> Hook.f.	Balsaminaceae	<i>Ischaemum travancorense</i> Stapf ex C.E.C.Fisch.	Poaceae
<i>Impatiens lucida</i> Heyne	Balsaminaceae	<i>Ischaemum tumidum</i> Stapf ex Bor	Poaceae
<i>Impatiens macrocarpa</i> Hook.f.	Balsaminaceae	<i>Iseilema antheperoides</i> Hack.	Poaceae
<i>Impatiens munnarensis</i> E.Barnes	Balsaminaceae	<i>Iseilema laxum</i> Hack.	Poaceae
<i>Impatiens mysorensis</i> Roth	Balsaminaceae	<i>Isodon nilgherriensis</i> (Benth.) H.Hara	Lamiaceae
<i>Impatiens neobarnesii</i> C.E.C.Fisch.	Balsaminaceae	<i>Isoetes sampathkumarinii</i> L.N. Rao	Isoetaceae
<i>Impatiens nilgirica</i> C.E.C.Fisch.	Balsaminaceae	<i>Isonandra stocksii</i> C.B.Clarke	Sapotaceae
<i>Impatiens oppositifolia</i> L.	Balsaminaceae	<i>Isonandra villosa</i> Wight	Sapotaceae
<i>Impatiens pahalgamensis</i> Hook.f.	Balsaminaceae	<i>Isopyrum ludlowii</i> Tamura & Lauener	Ranunculaceae
<i>Impatiens pandata</i> E.Barnes	Balsaminaceae	<i>Ixonanthes khasiana</i> Hook.f.	Ixonanthaceae
<i>Impatiens podocarpa</i> Hook.f.	Balsaminaceae	<i>Ixora johnsonii</i> Hook.f.	Rubiaceae
<i>Impatiens polysciadia</i> Hook.f.	Balsaminaceae	<i>Ixora lawsonii</i> Gamble	Rubiaceae
<i>Impatiens raziana</i> Bhaskar & Razi	Balsaminaceae	<i>Kashmiria himalaica</i> (Hook. f.) D.Y. Hong	Scrophulariaceae
<i>Impatiens reidii</i> Hook.f.	Balsaminaceae	<i>Jansenella griffithiana</i> (C.Muell.) Bor	Poaceae
<i>Impatiens stocksii</i> Hook.f. & Thomson	Balsaminaceae	<i>Jasminum brevipetiolatum</i> Duthie	Oleaceae
<i>Impatiens talbotii</i> Hook.f.	Balsaminaceae	<i>Jasminum elongatum</i> (P.J.Bergius) Willd.	Oleaceae
<i>Indigofera angulosa</i> Edgew.	Fabaceae	<i>Jasminum flexile</i> Vahl	Oleaceae
<i>Indigofera aspalathoides</i> DC.	Fabaceae	<i>Jasminum listeri</i> King ex Gage	Oleaceae
<i>Indigofera caerulea</i> Roxb. var. <i>monosperma</i> (Sant.) Sant.	Fabaceae	<i>Jasminum malabaricum</i> Wight	Oleaceae
<i>Indigofera cedrorum</i> Dunn	Fabaceae	<i>Jasminum parkeri</i> Dunn	Oleaceae
<i>Indigofera constricta</i> (Thwaites) Trimen	Fabaceae	<i>Jasminum scandens</i> (Retz.) Vahl	Oleaceae
<i>Indigofera hamiltonii</i> Duthie & Prain	Fabaceae	<i>Jasminum wengeri</i> C.E.C.Fisch.	Oleaceae
<i>Indigofera parviflora</i> F. Heyne ex Hook. & Arn.	Fabaceae	<i>Jasminum adenophyllum</i> Wall. ex C.B.Clarke	Oleaceae
<i>Indigofera tirunelvelica</i> Sanjappa	Fabaceae	<i>Jasminum andamanicum</i> N.P.Balacr. & N.G.Nair	Oleaceae
<i>Indigofera trifoliata</i> L.	Fabaceae	<i>Jejosephia pusilla</i> (J.Joseph & H.Deka) A.N.Rao & Mani	Orchidaceae
<i>Indigofera wightii</i> Wight & Arn.	Fabaceae	<i>Juncus bufonius</i> L.	Juncaceae
<i>Indofevillea khasiana</i> Chatterjee	Cucurbitaceae	<i>Juncus duthiei</i> (C.B.Clarke) Noltie	Cyperaceae
<i>Indopiptadenia oudhensis</i> (Brandis) Brenan	Fabaceae	<i>Juncus Sikkimensis</i> Hook.f.	Juncaceae
<i>Indopoa pauperula</i> (Stapf) Bor	Poaceae	<i>Juniperus polycarpus</i> K.Koch	Cupressaceae
<i>Indotristicha tirunelveliana</i> B.D.Sharma, Karthik. & B.V.Shetty	Podostemonaceae	<i>Juniperus recurva</i> Buch.-Ham. ex D.Don	Cupressaceae
<i>Intsia bijuga</i> (Colebr.) Kuntze	Caesalpiniaceae	<i>Juniperus communis</i> L.	Cupressaceae
		<i>Jurinea ceratocarpa</i> (Dcne.) Benth. & Hook.f.	Asteraceae

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## Conservation of Threatened Plants of India

### Annexure 1. (Contd)

Species name	Family	Species name	Family
<i>Jurinea dolomiaea</i> Boiss.	Asteraceae	<i>Lilium mackliniae</i> Sealy	Liliaceae
<i>Jurinella macrocephala</i> (Royle) Aswal & Goel	Asteraceae	<i>Lilium polyphyllum</i> D.Don	Liliaceae
<i>Justicia beddomei</i> (C.B.Clarke) Bennet	Acanthaceae	<i>Lilium wallichianum</i> Schult. & Schult.f.	Liliaceae
<i>Justicia glabra</i> K.D.Koenig ex Roxb.	Acanthaceae	<i>Lilium wallichianum</i> var. <i>neilgherrense</i>	Liliaceae
<i>Justicia latispica</i> Gamble	Acanthaceae	(Wight) H.Hara	
<i>Justicia nilgherrensis</i> (Nees) Wall. ex C.B.Clarke	Acanthaceae	<i>Limnophila connata</i> (Buch.-Ham. ex	Scrophulariaceae
<i>Justicia salsoloides</i> T.Anderson	Acanthaceae	D. Don) Hand.-Mazz.	
<i>Kaempferia galanga</i> L.	Zingiberaceae	<i>Limnopoa meeboldii</i> (C.E.C.Fisch.) C.E.Hubb.	Poaceae
<i>Kaempferia rotunda</i> L.	Zingiberaceae	<i>Limonium stocksii</i> Kuntze	Plumbaginaceae
<i>Kalanchoe laciniata</i> (L.) DC.	Crassulaceae	<i>Limosella aquatica</i> L.	Scrophulariaceae
<i>Kalanchoe olivacea</i> Dalzell	Crassulaceae	<i>Lindernia bracteoides</i> (Blatt. & Hallb.) Mukerjee	Scrophulariaceae
<i>Karnataka benthamii</i> (C.B. Clarke)	Apiaceae	<i>Lindernia nummulariifolia</i> (D.Don) Wettst.	Scrophulariaceae
P.K. Mukh. & Constance		<i>Lindsaea himalaica</i> K.U.Kramer	Lindsaeaceae
<i>Kendrickia walkeri</i> Hook. f.	Melastomataceae	<i>Lindsaea malabarica</i> Baker	Lindsaeaceae
<i>Kingidium taenialis</i> P.F. Hunt	Orchidaceae	<i>Linum mysurense</i> B.Heyne ex Benth.	Linaceae
<i>Kingiodendron pinnatum</i> (DC.) Harms	Fabaceae	<i>Liparis barbata</i> Lindl.	Orchidaceae
<i>Knema attenuata</i> Warb.	Myristicaceae	<i>Liparis beddomei</i> Ridl.	Orchidaceae
<i>Knoxia sumatrensis</i> (Retz.) DC.	Rubiaceae	<i>Liparis biloba</i> Wight	Orchidaceae
<i>Korthalsia rogersii</i> Becc.	Arecaceae	<i>Liparis caespitosa</i> (Thouars) Lindley	Orchidaceae
<i>Kyllinga melanosperma</i> Nees	Cyperaceae	<i>Liparis delicatula</i> Hook.f.	Orchidaceae
<i>Lactuca benthamii</i> C.B.Clarke	Asteraceae	<i>Liparis distans</i> C.B.Clarke	Orchidaceae
<i>Lactuca dissecta</i> D.Don	Asteraceae	<i>Liparis duthiei</i> Hook.f.	Orchidaceae
<i>Lactuca filicina</i> Duthie ex Stebbins	Asteraceae	<i>Liparis elliptica</i> Wight	Orchidaceae
<i>Lactuca undulata</i> Ledeb.	Asteraceae	<i>Liparis latifolia</i> Lindl.	Orchidaceae
<i>Lagenandra undulata</i> Sastry	Araceae	<i>Liparis nervosa</i> (Thunb.) Lindl.	Orchidaceae
<i>Lagerstroemia minuticarpa</i> Debb. ex P.C.Kanjilal	Lythraceae	<i>Liparis petiolata</i> (D.Don) P.F.Hunt & Summerh.	Orchidaceae
<i>Lagerstroemia thomsonii</i> Koehne	Lythraceae	<i>Liparis platyphylla</i> Ridl.	Orchidaceae
<i>Lagdera aurita</i> (DC.) Sch.Bip. ex Schweinf.	Asteraceae	<i>Liparis platyrachis</i> Hook.f.	Orchidaceae
<i>Lamprachaenium microcephalum</i> (Dalzell)	Asteraceae	<i>Liparis resupinata</i> Ridl.	Orchidaceae
C.B. Clarke		<i>Liparis viridiflora</i> (Blume) Lindl.	Orchidaceae
<i>Laportea interrupta</i> (L.) Chew	Urticaceae	<i>Lipocarpha gracilis</i> (Rich. ex Pers.) Nees	Cyperaceae
<i>Lasia spinosa</i> (L.) Thwaites	Araceae	<i>Litsea glutinosa</i> (Lour.) C.B.Rob.	Lauraceae
<i>Lasianthus capitulatus</i> Wight	Rubiaceae	<i>Litsea leiantha</i> (Kurz) Hook. f.	Lauraceae
<i>Lasianthus verticillatus</i> (Lour.) Merr.	Rubiaceae	<i>Litsea longifolia</i> (Nees) Trimen	Lauraceae
<i>Lasiococca comberi</i> Haines	Euphorbiaceae	<i>Litsea mysorensis</i> Gamble	Lauraceae
<i>Lavatera cashemiriana</i> Cambess.	Malvaceae	<i>Livistona jenkinsiana</i> Griff.	Arecaceae
<i>Leea aequata</i> L.	Leeaceae	<i>Lloydia himalensis</i> Royle	Liliaceae
<i>Leea alata</i> Edgew.	Leeaceae	<i>Lobelia alsinoides</i> Lam.	Lobeliaceae
<i>Leea indica</i> (Burm. f.) Merr.	Leeaceae	<i>Lobelia nicotianifolia</i> Roth ex Schult.	Campanulaceae
<i>Leea macrophylla</i> Roxb. ex Hornem.	Leeaceae	<i>Lonicera semenovii</i> Regel	Caprifoliaceae
<i>Lemna aequinoctialis</i> Welw.	Lemnaceae	<i>Lonicera spinosa</i> (Decne.) Jacq. ex Walp.	Caprifoliaceae
<i>Lepidagathis bandraensis</i> Blatt.	Acanthaceae	<i>Loranthus cordifolius</i> Wall.	Loranthaceae
<i>Lepidagathis barberi</i> Gamble	Acanthaceae	<i>Loropetalum chinense</i> (R. Br.) Oliv.	Hamamelidaceae
<i>Lepidagathis diffusa</i> (Nees) Lindau	Acanthaceae	<i>Lotus corniculatus</i> L.	Fabaceae
<i>Lepidagathis lutea</i> Dalzell	Acanthaceae	<i>Luffa echinata</i> Roxb.	cucurbitaceae
<i>Lepisanthes rubiginosa</i> (Roxb.) Leenh.	Sapindaceae	<i>Luffa umbellata</i> M.Roem.	Cucurbitaceae
<i>Leptadenia reticulata</i> (Retz.) Wight & Arn.	Asclepiadaceae	<i>Luisia abrahamii</i> Vatsala	Orchidaceae
<i>Leptodermis griffithii</i> Hook.f.	Rubiaceae	<i>Luisia brachystachys</i> (Lindl.) Blume	Orchidaceae
<i>Leptodermis scabrada</i> Hook.f.	Rubiaceae	<i>Luisia filiformis</i> Hook.f.	Orchidaceae
<i>Leptodesmia congesta</i> Baker	Fabaceae	<i>Luisia macrantha</i> Blatt. & McCann	Orchidaceae
<i>Leptomischus wallichii</i> (Hook.f.) H.S.Lo	Rubiaceae	<i>Luisia primulina</i> E.C.Parish & Rchb.f.	Orchidaceae
<i>Lepedeza juncea</i> (L.f.) Pers.	Fabaceae	<i>Luisia tristis</i> (G.Forst.) Hook.f.	Orchidaceae
<i>Lessingianthus plantaginodes</i> (Kuntze) H.Rob.	Asteraceae	<i>Luisia tenuifolia</i> Blume	Orchidaceae
<i>Leucas angustissima</i> Sedgw.	Lamiaceae	<i>Lumnitzera racemosa</i> Willd.	Combretaceae
<i>Leucas biflora</i> (Vahl) Sm.	Lamiaceae	<i>Luvunga scandens</i> (Roxb.) Buch.-Ham. ex	Rutaceae
<i>Leucas clarkei</i> Hook.f.	Lamiaceae	Wight & Arn.	
<i>Leucas deodikarii</i> Billmore & Hemadri	Lamiaceae	<i>Lycianthes laevis</i> (Dunal) Bitter	Solanaceae
<i>Leucas lanata</i> Benth.	Lamiaceae	<i>Lycopodiella cernua</i> (L.) Pic. Serm.	Lycopodiaceae
<i>Leucas mukerjiana</i> Subba Rao & Kumari	Lamiaceae	<i>Lysimachia decurrens</i> G. Forst.	Primulaceae
<i>Ligusticum alboalatum</i> Haines	Apiaceae	<i>Lysimachia leschenaultii</i> Duby	Primulaceae
<i>Ligusticum marginatum</i> C.B.Clarke	Apiaceae	<i>Macaranga denticulata</i> (Blume) Müll.Arg.	Euphorbiaceae
<i>Lilium davidii</i> Duch. ex Elwes	Liliaceae	<i>Macaranga indica</i> Wight	Euphorbiaceae

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## Annexure 1. (Contd)

Species name	Family	Species name	Family
<i>Macaranga peltata</i> (Roxb.) Müll.Arg.	Euphorbiaceae	<i>Merrillioanax alpinus</i> (C.B.Clarke) C.B.Shang	Araliaceae
<i>Machilus glaucescens</i> (Nees) Wight	Lauraceae	<i>Mesua ferrea</i> L.	Clusiaceae
<i>Mackenzia caudata</i> (T.Anderson) Ramamoorthy	Acanthaceae	<i>Metathelypteris decipiens</i> (Clarke) Ching	Thelypteridaceae
<i>Macropodanthus berkeleyi</i> (Rchb.f.) Seidenf. & Garaym	Orchidaceae	<i>Meteoromyrtus wynaadensis</i> (Bedd.) Gamble	Myrtaceae
<i>Madhuca bourdillonii</i> (Gamble) H.J.Lam	Sapotaceae	<i>Meyna spinosa</i> Roxb. ex Link	Rubiaceae
<i>Madhuca diplostemon</i> (C.B.Clarke) P.Royen	Sapotaceae	<i>Meyna velutina</i> Robyns	Rubiaceae
<i>Madhuca insignis</i> (Radlk.) H.J.Lam	Sapotaceae	<i>Micrococca mercurialis</i> (L.) Benth.	Euphorbiaceae
<i>Madhuca longifolia</i> (J.Koenig ex L.) J.F.Macbr.	Sapotaceae	<i>Microstegium ciliatum</i> (Trin.) A.Camus	Poaceae
<i>Madhuca neriifolia</i> (Moon) H.J.Lam	Sapotaceae	<i>Microstegium falconeri</i> (Hook.f.) Clayton	Poaceae
<i>Magnolia baillonii</i> Pierre	Magnoliaceae	<i>Microstegium petiolare</i> (Trin.) Bor	Poaceae
<i>Magnolia caveana</i> (Hook.f. & Thomson) D.C.S.Raju & M.P.Nayar	Magnoliaceae	<i>Miliusa nilagirica</i> Bedd.	Annonaceae
<i>Magnolia champaca</i> (L.) Baill. ex Pierre	Magnoliaceae	<i>Millettia splendens</i> Wight & Arn.	Fabaceae
<i>Magnolia griffithii</i> Hook.f. & Thomson	Magnoliaceae	<i>Mimosa barberi</i> Gamble	Mimosaceae
<i>Magnolia gustavii</i> King	Magnoliaceae	<i>Miquelia dentata</i> Bedd..	Icacinaceae
<i>Magnolia liliifera</i> (L.) Baill.	Magnoliaceae	<i>Mitrasacme pygmaea</i> R. Br.	Loganiaceae
<i>Magnolia liliifera</i> var. <i>obovata</i> (Korth.) Govaerts	Magnoliaceae	<i>Mitrastemon yamamotoi</i> Makino	Mitrastemonaceae
<i>Magnolia nilagirica</i> (Zenker) Figlar	Magnoliaceae	<i>Mitrephora andamanica</i> Thoth. & D.Das	Annonaceae
<i>Magnolia pleiocarpa</i> (Dandy) Figlar & Noot.	Magnoliaceae	<i>Mitrephora grandiflora</i> Bedd.	Annonaceae
<i>Magnolia punduana</i> (Hook.f. & Thomson) Figlar	Magnoliaceae	<i>Mitrephora heyneana</i> (Hook. f. & Thomson) Thwaites	Annonaceae
<i>Mahonia jaunsarensis</i> Ahrendt	Berberidaceae	<i>Mnesithea laevis</i> (Retz.) Kunth	Poaceae
<i>Mahonia napaulensis</i> DC.	Berberidaceae	<i>Mollugo cerviana</i> (L.) Ser.	Molluginaceae
<i>Maianthemum fuscum</i> (Wall.) LaFrankie	Convallariaceae	<i>Mollugo disticha</i> Ser.	Aizoaceae
<i>Malaxis crenulata</i> (Ridl.) Kuntze	Orchidaceae	<i>Momordica subangulata</i> Blume	Cucurbitaceae
<i>Malaxis intermedia</i> (A.Rich.) Seidenf.	Orchidaceae	<i>Monsonia heliotropoides</i> Boiss.	Geraniaceae
<i>Malaxis muscifera</i> (Lindl.) Kuntze	Orchidaceae	<i>Morinda citrifolia</i> L.	Rubiaceae
<i>Malleola andamanica</i> N.P.Balacr. & N.Bhargava	Orchidaceae	<i>Morinda umbellata</i> L.	Rubiaceae
<i>Mallotus roxburghianus</i> Müll.Arg.	Euphorbiaceae	<i>Moringa cancanensis</i> Nimmo	Moringaceae
<i>Malus baccata</i> (L.) Borkh.	Rosaceae	<i>Mucuna gigantea</i> (Willd.) DC.	Fabaceae
<i>Mangifera andamanica</i> King	Anacardiaceae	<i>Mucuna monosperma</i> Wight	Fabaceae
<i>Mangifera khasiana</i> Pierre	Anacardiaceae	<i>Mucuna pruriens</i> (L.) DC.	Fabaceae
<i>Mangifera sylvatica</i> Roxb.	Anacardiaceae	<i>Murdannia blumei</i> (Hassk.) Brenan	Commelinaceae
<i>Manilkara hexandra</i> (Roxb.) Dubard	Sapotaceae	<i>Murdannia crocea</i> subsp. <i>ochracea</i> (Dalzell) Faden	Commelinaceae
<i>Marsdenia raziana</i> Yogan. & Subr.	Asclepiadaceae	<i>Murdannia dimorpha</i> (Dalzell) G.Brückn.	Commelinaceae
<i>Maytenus bailadillana</i> (V.Naray. & Mooney) D.C.S.Raju & Babu	Celastraceae	<i>Murdannia japonica</i> (Thunb.) Faden	Commelinaceae
<i>Maytenus rothiana</i> (Walp.) Ramamoorthy	Celastraceae	<i>Murdannia lanceolata</i> (Wight) Kammathy	Commelinaceae
<i>Mazus pumilus</i> var. <i>delavayi</i> (Bonati) T.L. Chin ex D.Y. Hong	Scrophulariaceae	<i>Murdannia lanuginosa</i> (Wall. ex C.B.Clarke) G.Brückn.	Commelinaceae
<i>Meconopsis aculeata</i> Royle	Papaveraceae	<i>Murdannia semiteres</i> (Dalzell) Santapau	Commelinaceae
<i>Meconopsis latifolia</i> (Prain) Prain	Papaveraceae	<i>Murdannia versicolor</i> (Dalzell) G.Brückn.	Commelinaceae
<i>Megacarpaea bifida</i> Benth.	Brassicaceae	<i>Mycetia longifolia</i> (Wall.) Kuntze	Rubiaceae
<i>Meizotropis buteiformis</i> Voigt	Fabaceae	<i>Mycetia mukerjiana</i> Deb & R.M.Dutta	Rubiaceae
<i>Meizotropis pellita</i> (Prain) Sanjappa	Fabaceae	<i>Myristica dactyloides</i> Gaertn.	Myristicaceae
<i>Melanocenchris jacquemontii</i> Jaub. & Spach	Poaceae	<i>Myristica magnifica</i> Bedd.	Myristicaceae
<i>Melasma thomsonii</i> Wettst.	Scrophulariaceae	<i>Myristica malabarica</i> Lam.	Myristicaceae
<i>Melhania futteyporensis</i> Munro ex Mast.	Sterculiaceae	<i>Nageia wallichiana</i> (C.Presl) Kuntze	Podocarpaceae
<i>Melhania hamiltoniana</i> Wall.	Malvaceae	<i>Nanothamnus sericeus</i> Thomson	Asteraceae
<i>Melhania magnifolia</i> Blatt. & Hallb.	Malvaceae	<i>Nardostachys jatamansi</i> (D.Don) DC.	Valerianaceae
<i>Melia azedarach</i> L.	Meliaceae	<i>Natsiatum herpeticum</i> Buch.-Ham. ex Arn.	Icacinaceae
<i>Melicope indica</i> Wight	Rutaceae	<i>Neanotis carnosa</i> (Dalzell) W.H.Lewis	Rubiaceae
<i>Memecylon angustifolium</i> Wight	Melastomataceae	<i>Neanotis monosperma</i> (Wight & Arn.) W.H.Lewis	Rubiaceae
<i>Memecylon flavescens</i> Gamble	Melastomataceae	<i>Neanotis montholonii</i> (Hook.f.) W.H.Lewis	Rubiaceae
<i>Memecylon gracile</i> Bedd.	Melastomataceae	<i>Neanotis oxyphylla</i> (Wall. ex G.Don) W.H.Lewis	Rubiaceae
<i>Memecylon lawsonii</i> Gamble	Melastomataceae	<i>Neanotis prainiana</i> (Talbot) W.H.Lewis	Rubiaceae
<i>Memecylon madgolense</i> Gamble	Melastomataceae	<i>Neanotis rheedei</i> (Wight & Arn.) W.H.Lewis	Rubiaceae
<i>Memecylon sisparensense</i> Gamble	Melastomataceae	<i>Neocinnamomum caudatum</i> (Nees) Merr.	Lauraceae
<i>Merope angulata</i> Swingle	Rutaceae	<i>Neodistemon indicum</i> (Wedd.) Babu & Henr	Urticaceae
<i>Merremia aegyptia</i> (L.) Urb.	Convolvulaceae	<i>Neonauclea gageana</i> (King) Merr.	Rubiaceae
<i>Merremia peltata</i> (L.) Merr.	Convolvulaceae	<i>Neonauclea purpurea</i> (Roxb.) Merr.	Rubiaceae
<i>Merremia tridentata</i> (L.) Hallier f.	Convolvulaceae	<i>Neopicrohiza scrophulariiflora</i> (Pennell) D.Y.Hong	Scrophulariaceae

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## Conservation of Threatened Plants of India

### Annexure 1. (Contd)

Species name	Family	Species name	Family
<i>Neottia acuminata</i> Schltr.	Orchidaceae	<i>Oberonia platycaulon</i> Wight	Orchidaceae
<i>Neottia inayatii</i> (Duthie) Schltr.	Orchidaceae	<i>Oberonia prainiana</i> King & Pantl.I.	Orchidaceae
<i>Neottia listeroides</i> Lindl.	Orchidaceae	<i>Oberonia proudlockii</i> King & Pantl.	Orchidaceae
<i>Neottia longicaulis</i> (King & Pantl.) Szlach.I.	Orchidaceae	<i>Oberonia santapau</i> Kapadia	Orchidaceae
<i>Neottia microglottis</i> (Duthie) Schltr.	Orchidaceae	<i>Oberonia sebastiana</i> B.V.Shetty & Vivek.	Orchidaceae
<i>Neottia ovata</i> (L.) Bluff & Fingerh.	Orchidaceae	<i>Oberonia seidenfadeniana</i> J.Joseph & Vajr.	Orchidaceae
<i>Neottia pantlingii</i> (W.W.Sm.) Tang & F.T.Wang	Orchidaceae	<i>Oberonia tenuis</i> Lindl.	Orchidaceae
<i>Neottia tenuis</i> (Lindl.) Szlach.	Orchidaceae	<i>Oberonia verticillata</i> Wight	Orchidaceae
<i>Neottianthe secundiflora</i> (Kraenzl.) Schltr.	Orchidaceae	<i>Oberonia wightiana</i> Lindl.	Orchidaceae
<i>Nepenthes khasiana</i> Hook.f.	Nepenthaceae	<i>Oberonia wynadensis</i> Sivad. & R.T.Balacr.	Orchidaceae
<i>Nepeta campestris</i> Benth.	Lamiaceae	<i>Ochlandra beddomei</i> Gamble	Poaceae
<i>Nepeta graciliflora</i> Benth.	Lamiaceae	<i>Ochlandra wightii</i> (Munro) C.E.C.Fisch.	Poaceae
<i>Neptunia oleracea</i> Lour.	Mimosaceae	<i>Ochna integerrima</i> (Lour.) Merr.	Ochnaceae
<i>Neptunia plena</i> (L.) Benth.	Fabaceae	<i>Ochreinauclea missionis</i> (Wall. ex G.Don)	Rubiaceae
<i>Nervilia concolor</i> (Blume) Schltr.	Orchidaceae	Ridsdale	
<i>Nervilia crocifomis</i> (Zoll. & Moritzi) Seidenf.	Orchidaceae	<i>Ocotropis travancorica</i> Bedd.	Rubiaceae
<i>Nervilia gammieana</i> (Hook.f.) Pfitzer	Orchidaceae	<i>Odontochilus elwesii</i> C.B.Clarke ex Hook.f.	Orchidaceae
<i>Nervilia infundibulifolia</i> Blatt. & McCann	Orchidaceae	<i>Odontochilus tetrapterus</i> (Hook.f.) Av.	Orchidaceae
<i>Nervilia juliana</i> (Roxb.) Schltr.	Orchidaceae	Bhattacharjee & H.J.Chowdhery	
<i>Nervilia mackinnonii</i> (Duthie) Schltr.	Orchidaceae	<i>Oenanthe javanica</i> (Blume) DC.	Apiaceae
<i>Nervilia macroglossa</i> (Hook.f.) Schltr.chltr.	Orchidaceae	<i>Oianthus beddomei</i> Hook.f.	Asclepiadaceae
<i>Nervilia plicata</i> (Andrews) Schltr.	Orchidaceae	<i>Oianthus disciflorus</i> Hook.f.	Asclepiadaceae
<i>Nervilia punctata</i> (Blume) Makino	Orchidaceae	<i>Olx nana</i> Wall. ex Benth.	Olacaceae
<i>Nervilia oragoana</i> Gaudich	Orchidaceae	<i>Oldenlandia attenuata</i> (Willd.) M.R.Almeida	Rubiaceae
<i>Nesaea brevipes</i> Koehne	Lythraceae	<i>Oldenlandia auricularia</i> (L.) K.Schum.	Rubiaceae
<i>Nesphostylis bracteata</i> (Baker) D.Potter & J.J.Doyle	Fabaceae	<i>Oldenlandia monocephala</i> Kuntze	Rubiaceae
<i>Neuracanthus neesianus</i> C.B.Clarke	Acanthaceae	<i>Oldenlandia scabra</i> (Wall. ex Kurz) Kuntze	Rubiaceae
<i>Neurada procumbens</i> L.	Neuradaceae	<i>Oldenlandia stocksii</i> Hook.f.	Rubiaceae
<i>Nilgirianthus beddomei</i> Bremek.	Acanthaceae	<i>Oldenlandia umbellata</i> L.	Rubiaceae
<i>Nilgirianthus campanulatus</i> (Wight) Bremek.	Acanthaceae	<i>Oldenlandia verticillata</i> L.	Rubiaceae
<i>Nilgirianthus ciliatus</i> (Nees) Bremek.	Acanthaceae	<i>Onosma hispida</i> Wall. ex G. Don	Boraginaceae
<i>Nilgirianthus circarensis</i> (Gamble) Bremek.	Acanthaceae	<i>Operculina turpethum</i> (L.) Silva Manso	Convolvulaceae
<i>Nilgirianthus lupulinus</i> (Nees) Bremek.	Acanthaceae	<i>Ophioglossum lusitanicum</i> subsp. <i>coriaceum</i>	Ophioglossaceae
<i>Nilgirianthus neilgherrensis</i> (Bedd.) Bremek.	Acanthaceae	(A. Cunn.) R.T. Clausen	
<i>Nilgirianthus reticulatus</i> (Stapf) Bremek.	Acanthaceae	<i>Ophioglossum reticulatum</i> L.	Ophioglossaceae
<i>Nilgirianthus urceolaris</i> (Gamble) Bremek.	Acanthaceae	<i>Ophioglossum vulgatum</i> L.	Ophioglossaceae
<i>Nogra dalzellii</i> (Baker) Merr.	Fabaceae	<i>Ophiorrhiza barnesii</i> C.E.C.Fisch.	Rubiaceae
<i>Nogra grahamii</i> (Benth.) Merr.	Fabaceae	<i>Ophiorrhiza brunonis</i> Wight & Arn.	Rubiaceae
<i>Nogra filicaulis</i> (Kurz) Merr.	Fabaceae	<i>Ophiorrhiza caudata</i> C.E.C.Fisch.	Rubiaceae
<i>Nomocharis synaptica</i> Sealy	Liliaceae	<i>Ophiorrhiza codyensis</i> Gamble	Rubiaceae
<i>Nothapodytes nimmoniana</i> (J.Graham) Mabb.	Icacinaceae	<i>Ophiorrhiza gracilis</i> Kurz	Rubiaceae
<i>Nothopogon aureofulva</i> Bedd. ex Hook.f.	Anacardiaceae	<i>Ophiorrhiza griffithii</i> Hook.f.	Rubiaceae
<i>Nothopogon heyneana</i> Gamble	Anacardiaceae	<i>Ophiorrhiza hirsutula</i> Wight ex Hook.f.	Rubiaceae
<i>Nothopogon travancorica</i> Bedd. ex Hook.f.	Anacardiaceae	<i>Ophiorrhiza hispida</i> Hook.f.	Rubiaceae
<i>Nymphaea tetragona</i> Georgi	Nymphaeaceae	<i>Ophiorrhiza incarnata</i> C.E.C.Fisch.	Rubiaceae
<i>Nypa fruticans</i> Wurm.	Arecaceae	<i>Ophiorrhiza lurida</i> Hook.f.	Rubiaceae
<i>Oberonia agastyamalayana</i> C.S.Kumar	Orchidaceae	<i>Ophiorrhiza pectinata</i> Arn.	Rubiaceae
<i>Oberonia anamalayana</i> J.Joseph	Orchidaceae	<i>Ophiorrhiza pykarensis</i> Gamble	Rubiaceae
<i>Oberonia anthropophora</i> Lindl.	Orchidaceae	<i>Ophiorrhiza radicans</i> Gardner ex Thwaites	Rubiaceae
<i>Oberonia balakrishnani</i> R.Ansari	Orchidaceae	<i>Ophiorrhiza subcapitata</i> Wall. ex Hook.f.	Rubiaceae
<i>Oberonia bicornis</i> Lindl.	Orchidaceae	<i>Ophiorrhiza tingens</i> C.B.Clarke ex C.E.C.Fisch.	Rubiaceae
<i>Oberonia brachyphylla</i> Blatt. & McCann	Orchidaceae	<i>Ophiorrhiza trichocarpus</i> Blume	Rubiaceae
<i>Oberonia brunoniana</i> Wight	Orchidaceae	<i>Ophiorrhiza villosa</i> Roxb.	Rubiaceae
<i>Oberonia chandraskharanii</i> V.J.Nair, V.S.Ramach. & R.Ansari	Orchidaceae	<i>Ophiorrhiza wattii</i> C.E.C.Fisch.	Rubiaceae
<i>Oberonia ensiformis</i> (Sm.) Lindl.	Orchidaceae	<i>Ophiuros bombaiensis</i> Bor	Poaceae
<i>Oberonia gammiei</i> King & Pantl.	Orchidaceae	<i>Oreocnide integrifolia</i> (Gaudich.) Miq.	Urticaceae
<i>Oberonia griffithiana</i> Lindl.	Orchidaceae	<i>Oreopteris elwesii</i> (Baker) Holttum	Thelypteridaceae
<i>Oberonia josephi</i> C.J.Saldanha	Orchidaceae	<i>Oreorchis foliosa</i> var. <i>indica</i> (Lindl.) N.Pearce & P.J.Cribb	Orchidaceae
<i>Oberonia nayarii</i> R.Ansari & R.Balacr.	Orchidaceae	<i>Oreorchis rolfei</i> Duthie	Orchidaceae
<i>Oberonia platycaulon</i> Wight	Orchidaceae	<i>Ormocarpum cochinchinense</i> (Lour.) Merr.	Fabaceae
		<i>Orobanche cernua</i> Loefl.	Orobanchaceae

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## Annexure 1. (Contd)

Species name	Family	Species name	Family
<i>Orobanche hansii</i> A. Kern.	Orobanchaceae	<i>Peperomia tetraphylla</i> (G.Forst.) Hook. & Arn.	Piperaceae
<i>Oropetium roxburghianum</i> (Schult.) S.M.Phillips	Poaceae	<i>Pericampylus glaucus</i> (Lam.) Merr.	Menispermaceae
<i>Oropetium thomaeum</i> (L.f.) Trin.	Poaceae	<i>Peristylus brachypyllus</i> A.Rich.	Orchidaceae
<i>Oropetium villosulum</i> Stapf ex Bor	Poaceae	<i>Peristylus duthiei</i> (Hook.f.) Deva & H.B.Naithani	Orchidaceae
<i>Orophea polycarpa</i> A.DC.	Annonaceae	<i>Peristylus goodyeroides</i> (D.Don) Lindl.	Orchidaceae
<i>Orophea thomsonii</i> Bedd.	Annonaceae	<i>Peristylus gracilis</i> Blume	Orchidaceae
<i>Orophea uniflora</i> Hook. f. & Thomson	Annonaceae	<i>Peristylus lancifolius</i> A.Rich.	Orchidaceae
<i>Oroxylum indicum</i> (L.) Kurz	BIGNONIACEAE	<i>Peristylus parishii</i> Rchb.f.	Orchidaceae
<i>Orthosiphon aristatus</i> (Blume) Miq.	Lamiaceae	<i>Peristylus secundus</i> (Lindl.) Rathakr.	Orchidaceae
<i>Oryza minuta</i> J.Presl	Poaceae	<i>Persea macrantha</i> (Nees) Kosterm.	Lauraceae
<i>Oryza rufipogon</i> Griff.	Poaceae	<i>Periscaria minor</i> (Huds.) Opiz	Polygonaceae
<i>Osbeckia stellata</i> Buch.-Ham. ex Ker Gawl.	Melastomataceae	<i>Peucedanum anamallayense</i> C.B.Clarke	Apiaceae
<i>Osyris lanceolata</i> Hochst. & Steud.	Santalaceae	<i>Peucedanum dehradunense</i> Babu	Apiaceae
<i>Otonophelium stipulaceum</i> (Bedd.) Radlk.	Sapindaceae	<i>Peucedanum dhana</i> Buch.-Ham. ex C.B.Clarke	Apiaceae
<i>Pachystylidium hirsutum</i> (Blume) Pax. & K. Hoffm.	Euphorbiaceae	<i>Peucedanum nagpurensis</i> Prain	Apiaceae
<i>Paderia foetida</i> L.	Rubiaceae	<i>Phaeanthus malabaricus</i> Bedd.	Annonaceae
<i>Paeonia emodi</i> Royle	Paeniaceae	<i>Phaius flavus</i> (Blume) Lindl.	Orchidaceae
<i>Palaquium bourdillonii</i> Brandis	Sapotaceae	<i>Phaius mishmensis</i> (Lindl. & Paxton) Rchb.f.	Orchidaceae
<i>Panax pseudoginseng</i> Wall.	Araliaceae	<i>Phaius tankervilleae</i> (Banks) Blume	Orchidaceae
<i>Panax wangianus</i> S.C.Sun	Araliaceae	<i>Phalaenopsis cornu-cervi</i> (Breda) Blume & Rchb.f.	Orchidaceae
<i>Pancratium parvum</i> Dalzell	Amaryllidaceae	<i>Phalaenopsis deliciosa</i> Rchb.f.	Orchidaceae
<i>Pandanus canaranus</i> Warb.	Pandanaceae	<i>Phalaenopsis lobbii</i> (Rchb.f.) H.R.Sweet	Orchidaceae
<i>Pandanus unguifer</i> Hook.f.	Pandanaceae	<i>Phalaenopsis manni</i> Rchb.f.	Orchidaceae
<i>Panicum antidotale</i> Retz.	Poaceae	<i>Phalaenopsis mysorensis</i> C.J.Saldanha	Orchidaceae
<i>Panicum curviflorum</i> Hornem.	Poaceae	<i>Phalaenopsis parishii</i> Rchb.f.	Orchidaceae
<i>Panicum maximum</i> Jacq.	Poaceae	<i>Phalaenopsis pulcherrima</i> (Lindl.) J.J.Sm.	Orchidaceae
<i>Panicum repens</i> L.	Poaceae	<i>Phalaenopsis speciosa</i> Rchb.f.	Orchidaceae
<i>Papaver himalayicum</i> Cretz.	Papaveraceae	<i>Phalaenopsis tetraspis</i> Rchb.f.	Orchidaceae
<i>Paphiopedilum charlesworthii</i> (Rolfe) Pfitzer	Orchidaceae	<i>Phalaenopsis mysorensis</i> C.J.Saldanha	Orchidaceae
<i>Paphiopedilum druryi</i> (Bedd.) Stein	Orchidaceae	<i>Phlebophyllum jeyporensis</i> (Bedd.) Bremek.	Acanthaceae
<i>Paphiopedilum fairrieianum</i> (Lindl.) Stein	Orchidaceae	<i>Phlebophyllum lanatum</i> (Nees) Bremek.	Acanthaceae
<i>Paphiopedilum hirsutissimum</i> (Lindl. ex Hook.) Stein	Orchidaceae	<i>Phlebophyllum lawsonii</i> (Gamble) Bremek.	Acanthaceae
<i>Paphiopedilum insigne</i> (Wall. ex Lindl.) Pfitz.	Orchidaceae	<i>Phlebophyllum versicolor</i> (Wight) Bremek.	Acanthaceae
<i>Paphiopedilum specerianum</i> (Reichb. f.) Pfitz.	Orchidaceae	<i>Phlomooides superba</i> (Royle ex Benth.) Kamelin & Makhm.	Myrsinaceae
<i>Paphiopedilum venustum</i> (Wall. ex Sims.) Pfitz.	Orchidaceae	<i>Phoebe hainisiana</i> Brandis	Lauraceae
<i>Paphiopedilum villosum</i> (Lindl.) Stein	Orchidaceae	<i>Phoenix paludosa</i> Roxb.	Arecaceae
<i>Paphiopedilum wardii</i> Summerh.	Orchidaceae	<i>Phoenix rupicola</i> T.Anderson	Arecaceae
<i>Papilionanthe teres</i> (Roxb.) Schltr.	Orchidaceae	<i>Pholidota articulata</i> Lindl.	Orchidaceae
<i>Papilionanthe vandarum</i> (Rchb.f.) Garay	Orchidaceae	<i>Pholidota convallariae</i> (E.C.Parish & Rchb.f.) Hook.f.	Orchidaceae
<i>Parabaena sagittata</i> Miers	Menispermaceae	<i>Pholidota imbricata</i> Lindl.	Orchidaceae
<i>Paracalyx scariosus</i> (Roxb.) Ali	Fabaceae	<i>Pholidota pallida</i> Lindl.	Orchidaceae
<i>Parahyparrhenia bellariensis</i> (Hack.) Clayton	Poaceae	<i>Pholidota wattii</i> King & Pantl.	Orchidaceae
<i>Paramignya scandens</i> Craib	Rutaceae	<i>Phrynium pubinerve</i> Blume	Marantaceae
<i>Paris polyphylla</i> Sm.	Trilliaceae	<i>Phyllanthus anamallayanus</i> (Gamble) G.L.Webster	Euphorbiaceae
<i>Paspalidium geminatum</i> (Forssk.) Stapf	Poaceae	<i>Phyllanthus emblica</i> L.	Phyllanthaceae
<i>Paspalum scrobiculatum</i> L.	Poaceae	<i>Phyllanthus indofischeri</i> Bennet	Phyllanthaceae
<i>Paspalum vaginatum</i> Sw.	Poaceae	<i>Phyllanthus leschenaultii</i> Müll.Arg.	Euphorbiaceae
<i>Pauia belladonna</i> Deb & R.M.Dutta	Solanaceae	<i>Phyllanthus narayanswamii</i> Gamble	Euphorbiaceae
<i>Pavetta hohenackeri</i> Bremek.	Rubiaceae	<i>Phyllanthus rheedei</i> Wight	Euphorbiaceae
<i>Pavetta madrassica</i> Bremek.	Rubiaceae	<i>Phyllanthus talbotii</i> Sedgw.	Euphorbiaceae
<i>Pavetta oblanceolata</i> Bremek.	Rubiaceae	<i>Phyllocephalum indicum</i> (Less.) K.Kirkm	Asteraceae
<i>Pavetta wightii</i> Hook.f.	Rubiaceae	<i>Phyllocephalum scabridum</i> (DC.) K.Kirkman	Asteraceae
<i>Pavonia ceratocarpa</i> Dalzell ex Mast.	Malvaceae	<i>Phyllorhiza nilgherensis</i> (Wight) Kuntze	Orchidaceae
<i>Pecteilis susannae</i> (L.) Raf.	Orchidaceae	<i>Phyllostachys manni</i> Gamble	Poaceae
<i>Pecteilis triflora</i> (D.Don) Tang & F.T.Wang	Orchidaceae	<i>Physochlaina praealta</i> (Decne.) Miers	Solanaceae
<i>Pedicularis rhinanthoides</i> Schrenk	Scrophulariaceae	<i>Picrorhiza kurroa</i> Royle ex Benth.	Plantaginaceae
<i>Pelatantheria insectifera</i> (Rchb.f.) Ridl.	Orchidaceae	<i>Pilea microphylla</i> (L.) Liebm.	Urticaceae
<i>Pentacalia corymbosa</i> (Benth.) Cuatrec.	Asteraceae	<i>Pilea scripta</i> (Buch.-Ham. ex D. Don) Wedd.	Urticaceae
<i>Pentanema cernuum</i> (Dalzell) Ling	Asteraceae		
<i>Peperomia blanda</i> (Jacq.) Kunth	Piperaceae		

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## Conservation of Threatened Plants of India

### Annexure 1. (Contd)

Species name	Family	Species name	Family
<i>Pimpinella bracteata</i> Haines	Apiaceae	<i>Podochilus khasianus</i> Hook.f.	Orchidaceae
<i>Pimpinella flaccida</i> C.B. Clarke	Apiaceae	<i>Poeciloneuron pauciflorum</i> Bedd.	Bonnetiaceae
<i>Pimpinella katrajensis</i> R.S.Rao & Hemadri	Apiaceae	<i>Pogonachne racemosa</i> Bor	Poaceae
<i>Pimpinella pulneyensis</i> Gamble	Apiaceae	<i>Pogostemon atropurpureus</i> Benth.	Lamiaceae
<i>Pimpinella rollae</i> Billore & Hemadri	Apiaceae	<i>Pogostemon cruciatus</i> (Benth.) Kuntze	Lamiaceae
<i>Pimpinella sikkimensis</i> C.B. Clarke	Apiaceae	<i>Pogostemon mysuroides</i> (Roth) Kuntze	Lamiaceae
<i>Pimpinella tirupatiensis</i> N.P. Balakr. & Subram.	Apiaceae	<i>Pogostemon nilagiricus</i> Gamble	Lamiaceae
<i>Pimpinella tongloensis</i> P.K. Mukh.	Apiaceae	<i>Pogostemon paludosus</i> Benth.	Lamiaceae
<i>Pimpinella wallichii</i> C.B. Clarke	Apiaceae	<i>Pogostemon pressii</i> Panigrahi	Lamiaceae
<i>Pimpinella pulneyensis</i> Gamble	Apiaceae	<i>Pogostemon pubescens</i> Benth.	Lamiaceae
<i>Pinalia connata</i> (J. Joseph, S.N. Hegde & Abbar.) Ormerod & E.W. Wood	Orchidaceae	<i>Pogostemon quadrifolius</i> (Benth.) F. Muell.	Lamiaceae
<i>Pinalia mysorensis</i> (Lindl.) Kuntze	Orchidaceae	<i>Pogostemon salicifolius</i> (Dalzell ex Hook.f.) El Gazzar & L. Watson	Lamiaceae
<i>Pinalia polystachya</i> (A. Rich.) Kuntze	Orchidaceae	<i>Pogostemon pressii</i> Panigrahi	Lamiaceae
<i>Pinalia pumila</i> (Lindl.) Kuntze	Orchidaceae	<i>Pollia pentasperma</i> C.B. Clarke	Commelinaceae
<i>Pinalia spicata</i> (D. Don) S.C. Chen & J.J. Wood.	Orchidaceae	<i>Polyalthia korintii</i> Hook. f. & Thomson	Annonaceae
<i>Pinanga andamanensis</i> Becc.	Arecaceae	<i>Polyalthia simiarum</i> (Buch.-Ham. ex Hook. f. & Thomson) Benth. ex Hook. f. & Thomson	Annonaceae
<i>Pinanga manii</i> Becc.	Arecaceae	<i>Polyalthia suberosa</i> (Roxb.) Thwaites	Annonaceae
<i>Pinguicula alpina</i> L.	Lentibulariaceae	<i>Polycarpaea diffusa</i> Wight ex Arn.	Caryophyllaceae
<i>Pinus gerardiana</i> Wall. ex D. Don	Pinaceae	<i>Polygala chinensis</i> L.	Polygalaceae
<i>Piper barberi</i> Gamble	Piperaceae	<i>Polygala rosmarinifolia</i> Wight & Arn.	Polygalaceae
<i>Piper betleoides</i> C. DC.	Piperaceae	<i>Polygala tricholopha</i> Chodat	Polygalaceae
<i>Piper boehmeriifolium</i> (Miq.) Wall. ex C. DC.	Piperaceae	<i>Polygonatum cirrhifolium</i> (Wall.) Royle	Asparagaceae
<i>Piper longum</i> L.	Piperaceae	<i>Polygonatum graminifolium</i> Hook.	Liliaceae
<i>Piper mullesua</i> Buch.-Ham. ex D. Don	Piperaceae	<i>Polygonatum multiflorum</i> (L.) All.	Asparagaceae
<i>Piper nigrum</i> L.	Piperaceae	<i>Polygonatum verticillatum</i> (L.) All.	Asparagaceae
<i>Piper pedicellatum</i> C. DC.	Piperaceae	<i>Polygonum longisetum</i> var. <i>rotundatum</i> A.J. Li	Polygonaceae
<i>Piper peepuloides</i> Roxb.	Piperaceae	<i>Polygonum praetermissum</i> Hook. f.	Polygonaceae
<i>Piptatherum hilariae</i> Pazij	Poaceae	<i>Polypleurum dichotomum</i> (Gardner) J.B. Hall	Podostemonaceae
<i>Pittosporum eriocarpum</i> Royle	Pittosporaceae	<i>Polypleurum stylosum</i> (Wight) J.B. Hall	Podostemonaceae
<i>Pittosporum wightii</i> A.K. Mukh.	Pittosporaceae	<i>Polypleurum wallichii</i> (R. Br. ex Griff.) Warm.	Podostemonaceae
<i>Plantago asiatica</i> L.	Plantaginaceae	<i>Polypodiodes wattii</i> (Bedd.) Ching	Polypodiaceae
<i>Platanthera arcuata</i> Lindl.	Orchidaceae	<i>Polygogon monspeliensis</i> (L.) Desf.	Poaceae
<i>Platanthera cumminsiana</i> (King & Pantl.) Renz	Orchidaceae	<i>Polystachya concreta</i> (Jacq.) Garay & H.R. Sweet	Orchidaceae
<i>Platanthera edgeworthii</i> (Hook.f. ex Collett) R.K. Gupta	Orchidaceae	<i>Polyzygus tuberosus</i> Walp.	Apiaceae
<i>Platanthera latilabris</i> Lindl.	Orchidaceae	<i>Pomatocalpa decipiens</i> (Lindl.) J.J. Sm.	Orchidaceae
<i>Platanthera stenantha</i> (Hook.f.) Soó	Orchidaceae	<i>Pomatocalpa maculosum</i> subsp. <i>andamanicum</i> (Hook.f.) Watthana	Orchidaceae
<i>Platostoma africanum</i> P. Beauv.	Lamiaceae	<i>Pomatocalpa spicatum</i> Breda, Kuhl & Hasselt	Orchidaceae
<i>Platostoma palmiense</i> (Mukerjee) A.J. Paton	Lamiaceae	<i>Popowia beddomeana</i> Hook.f. & Thomson	Annonaceae
<i>Platystemma violoides</i> Wall.	Gesneriaceae	<i>Portulaca pilosa</i> L.	Portulacaceae
<i>Plecosperrum spinosum</i> Trécul	Moraceae	<i>Potamogeton nodosus</i> Poir.	Potamogetonaceae
<i>Plectranthus barbatus</i> Andrews	Lamiaceae	<i>Potamogeton octandrus</i> Poir.	Potamogetonaceae
<i>Plectranthus bishopianus</i> Gamble	Lamiaceae	<i>Potamogeton perfoliatus</i> L.	Potamogetonaceae
<i>Plectranthus bourneae</i> Gamble	Lamiaceae	<i>Potentilla kashmirica</i> Hook.f.	Rosaceae
<i>Plectranthus vettiveroides</i> (Jacob) N.P. Singh & B.D. Sharma	Lamiaceae	<i>Potentilla sundaica</i> (Blume) Kuntze	Rosaceae
<i>Pleione lagenaria</i> Lindl. & Paxton	Orchidaceae	<i>Pothos armatus</i> C.E.C. Fisch.	Araceae
<i>Pleione hookeriana</i> (Lindl.) Rollissons	Orchidaceae	<i>Pouzolzia auriculata</i> Wight	Urticaceae
<i>Pleione humilis</i> (Sm.) D. Don	Orchidaceae	<i>Pouzolzia pentandra</i> var. <i>wightii</i> (Benn. & Br.) Friis & Wilmot-Dear	Urticaceae
<i>Pleione maculata</i> (Lindl.) Lindl. & Paxton	Orchidaceae	<i>Pouzolzia zeylanica</i> (L.) Benn.	Urticaceae
<i>Pleione praecox</i> (Sm.) D. Don	Orchidaceae	<i>Premna barbata</i> Wall. ex Schauer	Verbenaceae
<i>Pleione scopulorum</i> W.W. Sm.	Orchidaceae	<i>Premna glaberrima</i> Wight	Verbenaceae
<i>Pleurospermum angelicoides</i> (Wall. ex DC.) Benth. ex C.B. Clarke	Apiaceae	<i>Premna resinosa</i> (Hochst.) Schauer	Lamiaceae
<i>Plocoglottis javanica</i> Blume	Orchidaceae	<i>Premna tomentosa</i> Willd.	Verbenaceae
<i>Pluchea lanceolata</i> (DC.) C.B. Clarke	Asteraceae	<i>Primula clarkei</i> Watt	Primulaceae
<i>Plumbago indica</i> L.	Plumbaginaceae	<i>Primula mathioli</i> (L.) K. Richt.	Primulaceae
<i>Plumbago zeylanica</i> L.	Plumbaginaceae	<i>Primula minutissima</i> Jacquem. ex Duby	Primulaceae
<i>Poa pseudamoena</i> Bor	Poaceae	<i>Primula schlagintweitiana</i> Pax	Primulaceae
<i>Poa rhadina</i> Bor	Poaceae	<i>Prismatomeris fragrans</i> subsp. <i>andamanica</i> (Ridl.) J.T. Johans.	Rubiaceae
<i>Podocarpus neriifolius</i> D. Don	Podocarpaceae		

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## Annexure 1. (Contd)

Species name	Family	Species name	Family
<i>Pronephrium thwaitesii</i> (Hook.) Holttum	Thelypteridaceae	<i>Rhaphidophora decursiva</i> (Roxb.) Schott	Araceae
<i>Prosopis farcta</i> (Banks & Sol.) J.F. Macbr.	Fabaceae	<i>Rhaphidophora hookeri</i> Schott	Araceae
<i>Prunus ceylanica</i> (Wight) Miq.	Rosaceae	<i>Rhaphidophora pertusa</i> (Roxb.) Schott	Araceae
<i>Prunus pygeoides</i> Koehne	Rosaceae	<i>Rheum australe</i> D. Don	Polygonaceae
<i>Przewalskia tangutica</i> Maxim.	Solanaceae	<i>Rheum moorcroftianum</i> Royle	Polygonaceae
<i>Pseudarthria viscida</i> (L.) Wight & Arn.	Fabaceae	<i>Rheum nobile</i> Hook. f. & Thomson	Polygonaceae
<i>Pseudocaryopteris bicolor</i> (Roxb. ex Hardw.) P.D. Cantino	Verbenaceae	<i>Rheum spiciforme</i> Royle	Polygonaceae
<i>Pseudocyclosorus gamblei</i> Holttum & Jeff W. Grimes	Thelypteridaceae	<i>Rheum webbianum</i> Royle	Polygonaceae
<i>Pseudocyclosorus griseus</i> Holttum & Jeff W. Grimes	Thelypteridaceae	<i>Rhizophora apiculata</i> Blume	Rhizophoraceae
<i>Pseudodichanthium serrafalcoides</i> (Cooke & Stapf) Bor	Poaceae	<i>Rhizophora mucronata</i> Lam.	Rhizophoraceae
<i>Pseudoraphis brunoniana</i> (Griff.) Pilg.	Poaceae	<i>Rhodiola heterodonta</i> (Hook. f. & Thomson) Boriss.	Crassulaceae
<i>Pseudoraphis minuta</i> (Mez) Pilg.	Poaceae	<i>Rhodiola imbricata</i> Edgew.	Crassulaceae
<i>Pseudoxytenanthera ritcheyi</i> (Munro) H.B. Naithani	Poaceae	<i>Rhododendron anthopogon</i> D. Don	Ericaceae
<i>Pseuduvaria prainii</i> (King) Merr.	Annonaceae	<i>Rhododendron campanulatum</i> D. Don	Ericaceae
<i>Psilostachys sericea</i> Hook. f.	Euphorbiaceae	<i>Rhododendron concinnoides</i> Hutch. & Kingdon-Ward	Ericaceae
<i>Psilotum nudum</i> (L.) P. Beauv.	Psilotaceae	<i>Rhododendron edgeworthii</i> Hook. f.	Ericaceae
<i>Psychotria aborensis</i> Dunn	Rubiaceae	<i>Rhododendron formosum</i> Wall.	Ericaceae
<i>Psychotria adenophylla</i> Wall.	Rubiaceae	<i>Rhododendron lepidotum</i> Wall. ex G. Don	Ericaceae
<i>Psychotria andamanica</i> Kurz	Rubiaceae	<i>Rhododendron macabeanum</i> Watt ex Balf. f.	Ericaceae
<i>Psychotria globicephala</i> Gamble	Rubiaceae	<i>Rhododendron santapau</i> Sastry & al.	Ericaceae
<i>Psychotria nubicola</i> G. Taylor	Rubiaceae	<i>Rhododendron subansiriense</i> D.F. Chamb. & Cox	Ericaceae
<i>Psychotria pendula</i> Hook. f.	Rubiaceae	<i>Rhododendron wightii</i> Hook. f.	Ericaceae
<i>Psychotria symplocifolia</i> Kurz	Rubiaceae	<i>Rhopalocnemis phalloides</i> Jungh.	Balanophoraceae
<i>Psychotria tylophora</i> Kurz	Rubiaceae	<i>Rhus chinensis</i> Mill.	Anacardiaceae
<i>Psydrax ficiformis</i> (Hook. f.) Bridson	Rubiaceae	<i>Rhynchoglossum lazulinum</i> A.S. Rao & J. Joseph	GESNERIACEAE
<i>Psydrax umbellata</i> (Wight) Bridson	Rubiaceae	<i>Rhynchosia beddomei</i> Baker	Fabaceae
<i>Pternopetalum senii</i> Deb & R.M. Dutta	Apiaceae	<i>Rhynchosia bracteata</i> Baker	Fabaceae
<i>Pterocarpus indicus</i> Willd.	Fabaceae	<i>Rhynchosia cana</i> (Willd.) DC.	Fabaceae
<i>Pterocarpus marsupium</i> Roxb.	Fabaceae	<i>Rhynchosia jacobii</i> Chandrab. & B.V. Shetty	Fabaceae
<i>Pterocarpus santalinus</i> L. f.	Papilionioideae	<i>Rhynchosia rufescens</i> (Willd.) DC.	Fabaceae
<i>Pterocaulon redolens</i> (G. Forst. ex Willd.) Benth. ex Fern.-Vill.	Asteraceae	<i>Rhynchosia suaveolens</i> (L. f.) DC.	Fabaceae
<i>Pteroceras leopardinum</i> (E.C. Parish & Rchb. f.) Seidenf. & Smitinand	Orchidaceae	<i>Rhynchosia velutina</i> Wight & Arn.	Fabaceae
<i>Pterospermum reticulatum</i> Wight & Arn.	Sterculiaceae	<i>Rhynchospora rubra</i> (Lour.) Makino	Cyperaceae
<i>Pterospermum xylocarpum</i> (Gaertn.) Santapau & Wagh	Sterculiaceae	<i>Rhynchospora submarginata</i> Kük.	Cyperaceae
<i>Puccinellia kashmiriana</i> Bor	Poaceae	<i>Rhynchosyris retusa</i> (L.) Blume	Orchidaceae
<i>Puccinellia thomsonii</i> (Stapf) R.R. Stewart	Poaceae	<i>Risleya atropurpurea</i> King & Pantl.	Orchidaceae
<i>Pueraria bella</i> Prain	Fabaceae	<i>Robiquetia josephiana</i> Manilal & C.S. Kumar	Orchidaceae
<i>Pueraria phaseoloides</i> (Roxb.) Benth.	Fabaceae	<i>Robiquetia spathulata</i> (Blume) J.J. Sm.	Orchidaceae
<i>Pueraria tuberosa</i> (Willd.) DC.	Fabaceae	<i>Robiquetia succisa</i> (Lindl.) Seidenf. & Garay	Orchidaceae
<i>Pulicaria angustifolia</i> DC.	Asteraceae	<i>Rosa involucrata</i> Roxb.	Rosaceae
<i>Pulicaria rajputanae</i> Blatt. & Hollb	Asteraceae	<i>Roscoea alpina</i> Royle	Zingiberaceae
<i>Pulsatilla wallichiana</i> (Royle) Ulbr.	Ranunculaceae	<i>Roscoea purpurea</i> Sm.	Zingiberaceae
<i>Pycnocycla glauca</i> Lindl.	Apiaceae	<i>Rostraria clarkeana</i> (Domin) Holub	Poaceae
<i>Pycnospora lutescens</i> (Poir.) Schindl.	Fabaceae	<i>Rotala illecebroides</i> (Arn.) Koehne	Lythraceae
<i>Pycnus dwarkensis</i> (K.C. Sahni & H.B. Naithani) S.S. Hooper	Cyperaceae	<i>Rotala mexicana</i> Schltld. & Cham.	Lythraceae
<i>Pycnus polystachyos</i> (Rottb.) P. Beauv.	Cyperaceae	<i>Rotala ritchiei</i> Koehne	Lythraceae
<i>Pyrenaria khasiana</i> R.N. Paul	Theaceae	<i>Rothea serrata</i> (L.) Steane & Mabb.	Lamiaceae
<i>Pyrus pashia</i> Buch.-Ham. ex D. Don	Rosaceae	<i>Rothia indica</i> (L.) Druce	Fabaceae
<i>Ranunculus pensylvanicus</i> L. f.	Ranunculaceae	<i>Roylea cinerea</i> (D. Don) Baill.	Lamiaceae
<i>Rapanea striata</i> Mez	Myrsinaceae	<i>Rubia cordifolia</i> L.	Rubiaceae
<i>Rauwolfia serpentina</i> (L.) Benth. ex Kurz	Apocynaceae	<i>Rubia edgeworthii</i> Hook. f.	Rubiaceae
<i>Renanthera imschootiana</i> Rolfe	Orchidaceae	<i>Rubia himalayensis</i> Klotzsch	Rubiaceae
<i>Rhamnus virgatus</i> Roxb.	Rhamnaceae	<i>Rubus almoresis</i> Dunn	Rosaceae
		<i>Rubus fockei</i> Gandhi	Rosaceae
		<i>Rubus rugosus</i> Sm.	Rosaceae
		<i>Rungia crenata</i> T. Anderson	Acanthaceae
		<i>Rungia linifolia</i> Nees	Acanthaceae
		<i>Saccharum narenga</i> (Nees ex Steud.) Hack.	Poaceae
		<i>Saccolabiopsis pusilla</i> (Lindl.) Seidenf. & Garay	Orchidaceae
		<i>Saccolabium congestum</i> (Lindl.) Hook. f.	Orchidaceae

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## Conservation of Threatened Plants of India

### Annexure 1. (Contd)

Species name	Family	Species name	Family
<i>Sageraea grandiflora</i> Dunn	Annonaceae	<i>Senecio dalzellii</i> C.B.Clarke	Asteraceae
<i>Sageraea laurifolia</i> (Graham) Blatt.	Annonaceae	<i>Senecio jacquemontianus</i> (Decne.) C.B.Clarke	Asteraceae
<i>Salacia beddomei</i> Gamble	Celastraceae	<i>Senecio kundaicus</i> C.E.C.Fisch.	Asteraceae
<i>Salacia brunoniana</i> Wight & Arn.	Celastraceae	<i>Senecio mayurii</i> C.E.C.Fisch.	Asteraceae
<i>Salacia jenkinsii</i> Kurz	Celastraceae	<i>Senecio mishmi</i> C.B.Clarke	Asteraceae
<i>Salacia macrosperma</i> Wight	Celastraceae	<i>Senecio rhabdos</i> C.B.Clarke	Asteraceae
<i>Salacia oblonga</i> Wall.	Celastraceae	<i>Senna alexandrina</i> Mill.	Fabaceae
<i>Salacia reticulata</i> Wight	Celastraceae	<i>Sesamum mulayanum</i> N.C.Nair	Pedaliaceae
<i>Salix tetrasperma</i> Roxb.	Salicaceae	<i>Seseli diffusum</i> (Roxb. ex Sm.) Santapau & Wagh	Apiaceae
<i>Salvadora oleoides</i> Decne.	Salvadoraceae	<i>Seseli thomsonii</i> (C.B.Clarke) Pimenov & Kljuykov	Apiaceae
<i>Salvadora persica</i> L.	Salvadoraceae	<i>Seseli trilobum</i> Benth. ex C.B.Clarke	Apiaceae
<i>Santalum album</i> L.	Santalaceae	<i>Seshagiria sahyadrica</i> Ansari & Hemadri	Asclepiadaceae
<i>Santapaua madurensis</i> N.P.Balabr. & Subram.	Acanthaceae	<i>Setaria plicata</i> (Lam.) T.Cooke	Poaceae
<i>Sapindus laurifolius</i> Balb. ex DC.	Sapindaceae	<i>Shorea tumbuggaia</i> Roxb.	Dipterocarpaceae
<i>Sapria himalayana</i> Griff.	Rafflesiaceae	<i>Shorea robusta</i> Gaertn.	Dipterocarpaceae
<i>Saraca asoca</i> (Roxb.) Willd.	Caesalpiniaceae	<i>Sida tiagii</i> Bhandari	Malvaceae
<i>Sarcolobus carinatus</i> Griff.	Asclepiadaceae	<i>Silene khasiana</i> Rohrb.	Caryophyllaceae
<i>Saurauia griffithii</i> Dyer	Actinidiaceae	<i>Silene kumaonensis</i> F.N.Williams	Caryophyllaceae
<i>Sauropus quadrangularis</i> (Willd.) Müll.Arg.	Euphorbiaceae	<i>Silene kunawarensis</i> Benth.	Caryophyllaceae
<i>Saussurea atkinsonii</i> C.B.Clarke	Asteraceae	<i>Silene vagans</i> C.B.Clarke	Caryophyllaceae
<i>Saussurea bracteata</i> Decne.	Asteraceae	<i>Sinopodophyllum hexandrum</i> (Royle) T.S.Ying	Berberidaceae
<i>Saussurea clarkei</i> Hook.f.	Asteraceae	<i>Skimmia laureola</i> Franch.	Rutaceae
<i>Saussurea costus</i> (Falc.) Lipsch.	Asteraceae	<i>Smilax glabra</i> Roxb	Smilacaceae
<i>Saussurea foliosa</i> Ledeb.	Asteraceae	<i>Smilax lanceifolia</i> Roxb.	Smilacaceae
<i>Saussurea gnaphalodes</i> (Royle ex Royle) Sch.Bip.	Asteraceae	<i>Smilax wightii</i> A.DC.	Smilacaceae
<i>Saussurea gossypiphora</i> D.Don	Asteraceae	<i>Smilax zeylanica</i> L.	Smilacaceae
<i>Saussurea obvallata</i> (DC.) Edgew.	Asteraceae	<i>Smithia agharkarii</i> Hemadri	Fabaceae
<i>Saussurea roylei</i> C.B.Clarke	Asteraceae	<i>Smithia ciliata</i> Royle	Fabaceae
<i>Saussurea simpsoniana</i> (Fielding & Gardner) Lipsch.	Asteraceae	<i>Smithia grandis</i> Baker	Leguminosae
<i>Saxifraga jacquemontiana</i> Decne.	Saxifragaceae	<i>Smithia pycnantha</i> Baker	Fabaceae
<i>Schefflera roxburghii</i> Gamble	Araliaceae	<i>Smithsonia maculata</i> (Dalzell) C.J.Saldanha	Orchidaceae
<i>Schisandra grandiflora</i> (Wall.) Hook.f. & Thomson	Schisandraceae	<i>Smithsonia straminea</i> C.J.Saldanha	Orchidaceae
<i>Schisandra propinqua</i> (Wall.) Baill.	Schisandraceae	<i>Smithsonia viridiflora</i> (Dalzell) C.J.Saldanha	Orchidaceae
<i>Schizachyrium exile</i> (Hochst.) Pilg.	Poaceae	<i>Smitinandia micrantha</i> (Lindl.) Holttum	Orchidaceae
<i>Schizachyrium impressum</i> (Hack.) A.Camus	Poaceae	<i>Solanum arundo</i> Mattei	Solanaceae
<i>Schoenefeldia gracilis</i> Kunth	Poaceae	<i>Solanum elaeagnifolium</i> Cav.	Solanaceae
<i>Schoenorchis fragrans</i> (E.C.Parish & Rchb.f.) Seidenf. & Smitinand	Orchidaceae	<i>Sonerila devicolamensis</i> M.P.Nayar	Melastomataceae
<i>Schoenorchis gemmata</i> (Lindl.) J.J.Sm.	Orchidaceae	<i>Sonerila pulneyensis</i> Gamble	Melastomataceae
<i>Schoenorchis jerdoniana</i> (Wight) Garay	Orchidaceae	<i>Sonerila travancorica</i> Bedd.	Melastomataceae
<i>Schoenorchis micrantha</i> Reinw. ex Blume	Orchidaceae	<i>Sonneratia caseolaris</i> (L.) Engl.	Sonneratiaceae
<i>Schrebera swietenoides</i> Roxb.	Oleaceae	<i>Sonneratia griffithii</i> Kurz	Sonneratiaceae
<i>Schweinfurthia papilionacea</i> (L.) Boiss.	Scrophulariaceae	<i>Sophora bakeri</i> Prain	Leguminosae
<i>Schweinfurthia pterosperma</i> A. Braun	Scrophulariaceae	<i>Sophora velutina</i> Lindl.	Fabaceae
<i>Scindapsus officinalis</i> (Roxb.) Schott	Araceae	<i>Sorghum nitidum</i> (Vahl) Pers.	Poaceae
<i>Scleria levis</i> Retz.	Cyperaceae	<i>Sorghum purpureosericeum</i> (A.Rich.) Schweinf. & Asch.	Poaceae
<i>Scleria lithosperma</i> (L.) Sw.	Cyperaceae	<i>Spathoglottis plicata</i> Blume	Orchidaceae
<i>Scleria psilorrhiza</i> C.B.Clarke	Cyperaceae	<i>Spatholobus purpureus</i> Prain	Fabaceae
<i>Scorzonera virgata</i> DC.	Asteraceae	<i>Sphaeropteris albosetacea</i> R.M.Tryon	Cyatheaceae
<i>Scutellaria andamanica</i> Prain	Lamiaceae	<i>Sphaeropteris brunoniana</i> (Hook.) R.M. Tryon	Cyatheaceae
<i>Sedum duthiei</i> Fröd.	Crassulaceae	<i>Sphaeropteris crinita</i> R.M.Tryon.]	Cyatheaceae
<i>Sedum oreades</i> (Decne.) Raym.-Hamet	Crassulaceae	<i>Sphaeropteris glauca</i> (Blume) R.M. Tryon	Cyatheaceae
<i>Sehima nervosum</i> (Rottler) Stapf	Poaceae	<i>Spiraea diversifolia</i> Dunn	Rosaceae
<i>Seidenfadeniella rosea</i> (Wight) C.S.Kumar	Orchidaceae	<i>Spiranthes sinensis</i> (Pers.) Ames	Orchidaceae
<i>Selinum vaginatum</i> C.B. Clarke	Apiaceae	<i>Spirodela polyrrhiza</i> (L.) Schleid.	Lemnaceae
<i>Selinum wallichianum</i> (DC.) Raizada & H.O. Saxen	Apiaceae	<i>Sporobolus capillaris</i> Miq.	Poaceae
<i>Semecarpus travancorica</i> Bedd.	Anacardiaceae	<i>Stachyphrynium placentarium</i> (Lour.) Clausager & Borchs.	Marantaceae
<i>Senecio candicans</i> Wall.	Asteraceae	<i>Stachyphrynium spicatum</i> (Roxb.) K.Schum.	Marantaceae
<i>Senecio corymbosus</i> Wall. ex DC.	Asteraceae	<i>Staurochilus ramosus</i> (Lindl.) Seidenf.	Orchidaceae
		<i>Staurogyne polybotrya</i> Kuntze	Acanthaceae

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## Annexure 1. (Contd)

Species name	Family	Species name	Family
<i>Stellaria depressa</i> Em. Schmid	Caryophyllaceae	<i>Taeniophyllum andamanicum</i> N.P.Balacr. & N.Bhargava	Orchidaceae
<i>Stemona tuberosa</i> Lour.	Stemonaceae	<i>Taeniophyllum scaberulum</i> Hook.f.	Orchidaceae
<i>Stenosiphonium setosum</i> T.Anderson	Acanthaceae	<i>Tainia penangiana</i> Hook.f.	Orchidaceae
<i>Stephania andamanica</i> Diels	Menispermaceae	<i>Tainia wrayana</i> (Hook.f.) J.J.Sm.	Orchidaceae
<i>Stephania glabra</i> (Roxb.) Miers	Menispermaceae	<i>Tamarix kutchensis</i> B.V.Shetty & R.P.Pandey	Tamaricaceae
<i>Sterculia khasiana</i> Debb.	Sterculiaceae	<i>Tamarix stricta</i> Boiss.	Tamaricaceae
<i>Stereospermum chelonoides</i> (L.f.) DC.	Bignoniaceae	<i>Tarenna agumbensis</i> Sundararagh.	Rubiaceae
<i>Stereospermum tetragonum</i> DC.	Bignoniaceae	<i>Taverniera cuneifolia</i> (Roth) Ali	Fabaceae
<i>Sternbergia vernalis</i> (Mill.) Gorer & J.H.Harvey	Amarylidaceae	<i>Taxus fuana</i> Nan Li & R.R.Mill	Taxaceae
<i>Stichoneuron membranaceum</i> Hook.f.	Stemonaceae	<i>Taxus wallichiana</i> var. <i>chinensis</i> (Pilg.) Florin	Taxaceae
<i>Stipa chitralensis</i> Bor	Poaceae	<i>Taxus wallichiana</i> Zucc..	Taxaceae
<i>Streptocaulon sylvestre</i> Wight	Apocynaceae	<i>Tecomella undulata</i> (Sm.) Seem.	Bignoniaceae
<i>Strobilanthes asperrimus</i> Nees	Acanthaceae	<i>Tephrosia barberi</i> J.R.Drumm.	Fabaceae
<i>Strobilanthes callosus</i> Nees	Acanthaceae	<i>Tephrosia calophylla</i> Bedd.	Fabaceae
<i>Strobilanthes circarensis</i> Gamble	Acanthaceae	<i>Tephrosia falciformis</i> S.V.Ramaswamy	Fabaceae
<i>Strobilanthes dupenii</i> Bedd. ex C.B.Clarke	Acanthaceae	<i>Tephrosia jamnagarensis</i> Santapau	Fabaceae
<i>Strobilanthes hallbergii</i> Blatt.	Acanthaceae	<i>Tephrosia pentaphylla</i> (Roxb.) G.Don	Fabaceae
<i>Strobilanthes jeyporensis</i> Bedd.	Acanthaceae	<i>Tephrosia roxburghiana</i> J.R.Drumm.	Fabaceae
<i>Strobilanthes lupulinus</i> Nees	Acanthaceae	<i>Tephrosia uniflora</i> subsp. <i>petrosa</i> (Blatt. & Hallb.) J.B.Gillett	Fabaceae
<i>Strobilanthes tomentosa</i> (Nees) J.R.I.Wood	Acanthaceae	<i>Tephrosia wynaadensis</i> J.R.Drumm.	Fabaceae
<i>Strychnos aenea</i> A.W.Hill	Loganiaceae	<i>Teramus mollis</i> Benth.	Fabaceae
<i>Strychnos colubrina</i> L.	Loganiaceae	<i>Terminalia arjuna</i> (Roxb. ex DC.) Wight & Arn.	Combretaceae
<i>Strychnos nux-vomica</i> L.	Loganiaceae	<i>Terminalia bellirica</i> (Gaertn.) Roxb.	Combretaceae
<i>Strychnos potatorum</i> L.f.	Loganiaceae	<i>Terminalia chebula</i> Retz.	Combretaceae
<i>Stylidium kunthii</i> Wall.	Stylidiaceae	<i>Terminalia pallida</i> Brandis	Combretaceae
<i>Stylidium tenellum</i> Sw. ex Willd.	Stylidiaceae	<i>Tetracentron sinense</i> Oliv.r	Trochodendraceae
<i>Sunipia bicolor</i> Lindl.	Orchidaceae	<i>Tetrastigma campylocarpum</i> (Kurz) Planch.	Vitaceae
<i>Sunipia cirrhata</i> (Lindl.) P.F.Hunt	Orchidaceae	<i>Tetrastigma leucostaphylum</i> (Dennst.) Alston	Vitaceae
<i>Sunipia jainii</i> Hynn. & Malhotra	Orchidaceae	<i>Teucrium plectranthoides</i> Gamble	Lamiaceae
<i>Sunipia virens</i> (Lindl.) P.F.Hunt	Orchidaceae	<i>Thalictrum chelidonii</i> DC.	Ranunculaceae
<i>Swertia angustifolia</i> var. <i>pulchella</i> (D. Don) Burkill	Gentianaceae	<i>Thalictrum dalzellii</i> Hook.	Ranunculaceae
<i>Swertia beddomei</i> C.B.Clarke	Gentianaceae	<i>Thalictrum foliolosum</i> DC.	Ranunculaceae
<i>Swertia chirayita</i> (Roxb.) Buch.-Ham. ex C.B.Clarke	Gentianaceae	<i>Thalictrum javanicum</i> Blume	Ranunculaceae
<i>Swertia corymbosa</i> Wight ex Griseb.	Gentianaceae	<i>Thelasis pygmaea</i> (Griff.) Lindl.	Orchidaceae
<i>Swertia lawii</i> Burkill	Gentianaceae	<i>Thelypteris himalaica</i> (Ching) C.F. Reed	Thelypteridaceae
<i>Symphorema involucreatum</i> Roxb. ceae	Symphoremata-	<i>Theriophonum dalzellii</i> Schot	Araceae
<i>Symplocos glauca</i> (Thunb.) Koidz.	Symplocaceae	<i>Theriophonum minutum</i> (Willd.) Baill.	Araceae
<i>Symplocos monantha</i> Wight	Symplocaceae	<i>Thermopsis inflata</i> Cambess.	Fabaceae
<i>Symplocos oligandra</i> Bedd.	Symplocaceae	<i>Thottea barberi</i> (Gamble) Ding Hou	Aristolochiaceae
<i>Symplocos paniculata</i> (Thunb.) Miq.	Symplocaceae	<i>Thrixspermum musciflorum</i> A.S.Rao & J.Joseph	Orchidaceae
<i>Symplocos racemosa</i> Roxb.	Symplocaceae	<i>Thrixspermum trichoglottis</i> (Hook.f.) Kuntze	Orchidaceae
<i>Synnema anomalum</i> (Blatt.) Raizada	Acanthaceae	<i>Thunia alba</i> (Lindl.) Rchb.f.	Orchidaceae
<i>Synotis simonsii</i> (C.B.Clarke) C.Jeffrey & Y.L.Chen	Asteraceae	<i>Thylacospermum caespitosum</i> (Cambess.) Schischk.	Caryophyllaceae
<i>Syzygium alternifolium</i> (Wight) Walp.	Myrtaceae	<i>Tibetoseris depressa</i> (Hook.f. & Thomson) Sennikov	Asteraceae
<i>Syzygium andamanicum</i> (King) N.P.Balacr.	Myrtaceae	<i>Tinospora sinensis</i> (Lour.) Merr.	Menispermaceae
<i>Syzygium assamicum</i> (Biswas & Purkay.) Raizada	Myrtaceae	<i>Tipularia cunninghamii</i> (King & Prain) S.C.Chen, S.W.Gale & P.J.Cribb	Orchidaceae
<i>Syzygium beddomei</i> (Duthie) Chithra	Myrtaceae	<i>Toddalia asiatica</i> (L.) Lam..	Rutaceae
<i>Syzygium bourdillonii</i> (Gamble) Rathakr. & N.C.Nair	Myrtaceae	<i>Toona ciliata</i> M.Roem.	Meliaceae
<i>Syzygium courtallense</i> (Gamble) Alston	Myrtaceae	<i>Toona ciliata</i> var. <i>hainesii</i> (C.DC.) Panigrahi & S.C.Mishra	Meliaceae
<i>Syzygium manii</i> (King) N.P.Balacr.	Myrtaceae	<i>Toona ciliata</i> var. <i>pubinervis</i> (C.DC.) Bahadur	Meliaceae
<i>Syzygium microphyllum</i> Gamble	Myrtaceae	<i>Torenia indica</i> C.J.Saldanha	Scrophulariaceae
<i>Syzygium palghatense</i> Gamble	Myrtaceae	<i>Torenia mucronulata</i> Benth.	Scrophulariaceae
<i>Syzygium periyarensis</i> Augustine & Sasidh.	Myrtaceae	<i>Tournefortia roxburghii</i> C.B.Clarke	Scrophulariaceae
<i>Syzygium stocksii</i> (Duthie) Gamble	Myrtaceae	<i>Toxocarpus beddomei</i> Gamble	Asclepiadaceae
<i>Syzygium travancoricum</i> Gamble	Myrtaceae	<i>Toxocarpus longistigma</i> Wight & Arn. ex Steud.	Asclepiadaceae
<i>Tacca leontopetaloides</i> (L.) Kuntze	Dioscoreaceae	<i>Toxocarpus palghatensis</i> Gamble	Asclepiadaceae

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## Conservation of Threatened Plants of India

### Annexure 1. (Contd)

Species name	Family	Species name	Family
<i>Trachycarpus takil</i> Becc.	Arecaceae	<i>Vanasushava pedata</i> (Wight) P.K. Mukh. & Constance	Apiaceae
<i>Trachyspermum roxburghianum</i> (DC.) H. Wolff	Apiaceae	<i>Vanda alpina</i> (Lindl.) Lindl.	Orchidaceae
<i>Trachyspermum villosum</i> (Haines) P.K.Bhattach. & K.Sarkar	Apiaceae	<i>Vanda arbuthnotiana</i> Kraenzl.	Orchidaceae
<i>Tragia bicolor</i> Miq.	Euphorbiaceae	<i>Vanda coerulea</i> Griff. ex Lindl.	Orchidaceae
<i>Tragus mongolorum</i> Ohwi	Poaceae	<i>Vanda coeruleascens</i> Griff.	Orchidaceae
<i>Trianthema portulacastrum</i> L.	Aizoaceae	<i>Vanda cristata</i> Wall. ex Lindl.	Orchidaceae
<i>Trias bonaccordensis</i> C.S.Kumarar	Orchidaceae	<i>Vanda jainii</i> A.S.Chauhan	Orchidaceae
<i>Trias stocksii</i> Benth. ex Hook.f.	Orchidaceae	<i>Vanda pumila</i> Hook.f.	Orchidaceae
<i>Tribulus Rajasthanensis</i> Bhandari & V.S. Sharma	Zygophyllaceae	<i>Vanda spathulata</i> (L.) Spreng.	Orchidaceae
<i>Tricarpelema giganteum</i> (Hassk.) H.Hara	Commelinaceae	<i>Vanda stangeana</i> Rchb.f.	Orchidaceae
<i>Tricarpelema glanduliferum</i> (J.Joseph & R.S.Rao) R.S.Rao	Commelinaceae	<i>Vanda tessellata</i> (Roxb.) Hook. ex G.Don	Orchidaceae
<i>Trichoglottis cirrhifera</i> Teijsm. & Binn.d.	Orchidaceae	<i>Vanda testacea</i> (Lindl.) Rchb.f.	Orchidaceae
<i>Trichoglottis orchidea</i> (J.Koenig) Garay	Orchidaceae	<i>Vanda thwaitesii</i> Hook.f.	Orchidaceae
<i>Trichosanthes anamalayana</i> Bedd.	Cucurbitaceae	<i>Vanda wightii</i> Rchb.f.	Orchidaceae
<i>Trichosanthes cucumerina</i> L.	Cucurbitaceae	<i>Vandopsis undulata</i> (Lindl.) J.J.Sm.	Orchidaceae
<i>Trichosanthes tricuspidata</i> Lour.	Cucurbitaceae	<i>Vanilla borneensis</i> Rolfe	Orchidaceae
<i>Trichotostia dasyphylla</i> (E.C.Parish & Rchb.f.) Kraenzl. f.	Orchidaceae	<i>Vanilla walkeriae</i> Wight	Orchidaceae
<i>Trigonella glabra</i> subsp. <i>uncata</i> (Boiss. & Noe) Lassen	Fabaceae	<i>Vateria indica</i> L.	Dipterocarpaceae
<i>Trigonella occulta</i> Ser.	Fabaceae	<i>Vateria macrocarpa</i> K.M.Gupta	Dipterocarpaceae
<i>Trilobachne cookei</i> (Stapf) Schenck ex Henrard	Poaceae	<i>Vepris bilocularis</i> Engl	Rutaceae
<i>Triplopogon ramosissimus</i> (Hack.) Bor	Poaceae	<i>Vernonia andamanica</i> Balakr. & Nair	Asteraceae
<i>Tripogon capillatus</i> Jaub. & Spach	Poaceae	<i>Vernonia gossypina</i> Gamble	Asteraceae
<i>Tripogon jacquemontii</i> Stapf.	Poaceae	<i>Vernonia pulneyensis</i> Gamble	Asteraceae
<i>Tripogon lisboae</i> Stapf	Poaceae	<i>Vernonia ramaswamii</i> Hutch.	Asteraceae
<i>Trisetum micans</i> (Hook.f.) Bor	Poaceae	<i>Vernonia recurva</i> Gleason	Asteraceae
<i>Trivalvaria kanjilalii</i> D.Das	Annonaceae	<i>Vernonia multibracteata</i> Gamble	Asteraceae
<i>Trollius acaulis</i> Lindl.	Ranunculaceae	<i>Veronica minima</i> Chandra Sek. & S.K.Srivast.	Scrophulariaceae
<i>Tropidia angulosa</i> (Lindl.) Blume	Orchidaceae	<i>Viburnum punctatum</i> Buch.-Ham. ex D. Don	Caprifoliaceae
<i>Tropidia curculigoides</i> Lindl.	Orchidaceae	<i>Vicia mollis</i> Boiss.	Fabaceae
<i>Turnera ulmifolia</i> L.	Turneraceae	<i>Vigna adenantha</i> (G.Mey.) Marechal & al.	Fabaceae
<i>Turpinia cochinchinensis</i> (Lour.) Merr.	Staphyleaceae	<i>Vigna khandalensis</i> (Santapau) Sundararagh. & Wadhw	Fabaceae
<i>Tylophorafasciculata</i> Buch.-Ham. ex Wight	Asclepiadaceae	<i>Vigna subramanianus</i> (Raizada) Raizada	Fabaceae
<i>Tylophora indica</i> (Burm. f.) Merr.	Apocynaceae	<i>Viola betonicifolia</i> Sm.	Menispermaceae
<i>Tylophora rotundifolia</i> Buch.-Ham. ex Wight	Asclepiadaceae	<i>Viola biflora</i> L.	Violaceae
<i>Typhonium bulbiferum</i> Dalzell	Araceae	<i>Viola himalayensis</i> W.Becker	Violaceae
<i>Typhonium flagelliforme</i> (Lodd.) Blume	Araceae	<i>Viola kunawurensis</i> Royle	Violaceae
<i>Typhonium trilobatum</i> (L.) Schott	Araceae	<i>Viola macroceras</i> Bunge	Violaceae
<i>Ulmus wallichiana</i> Planch.	Ulmaceae	<i>Viola patrinii</i> Ging.	Violaceae
<i>Uria lagopus</i> var. <i>neglecta</i> (Prain) H.Ohashi	Fabaceae	<i>Viscum mysorensis</i> Gamble	Loranthaceae
<i>Uria picta</i> (Jacq.) DC.	Fabaceae	<i>Vitex quinata</i> (Lour.) F.N.Williams	Verbenaceae
<i>Uria prunellifolia</i> Baker	Fabaceae	<i>Vitex trifolia</i> L.	Verbenaceae
<i>Urochondra setulosa</i> (Trin.) C.E.Hubb.	Poaceae	<i>Vrydagzynea albida</i> (Blume) Blume	Orchidaceae
<i>Uteria salicifolia</i> Bedd. ex Hook.f.	Apocynaceae	<i>Wagatea spicata</i> Dalzell	Caesalpiniaceae
<i>Utricularia baouleensis</i> A.Chev	Utriculariaceae	<i>Wahlenbergia flexuosa</i> (Hook.f. & Thomson) Thulin	Campanulaceae
<i>Utricularia cecilii</i> P. Taylor	Lentibulariaceae	<i>Waldheimia stoliczkae</i> (C.B.Clarke) Ostenf.	Asteraceae
<i>Utricularia foveolata</i> Edgew.	Lentibulariaceae	<i>Wallichia caryotoides</i> Roxb.	Arecaceae
<i>Utricularia hirta</i> Klein ex Link	Lentibulariaceae	<i>Wallichia triandra</i> (J.Joseph) S.K.Basu	Arecaceae
<i>Utricularia polygaloides</i> Edgew.	Lentibulariaceae	<i>Waltheria indica</i> L.	Malvaceae
<i>Uvaria concava</i> Teijsm. & Binn.	Annonaceae	<i>Wendlandia andamanica</i> Cowan	Rubiaceae
<i>Uvaria eucincta</i> Bedd. ex Dunn	Annonaceae	<i>Wendlandia angustifolia</i> Wight ex Hook.f.	Rubiaceae
<i>Uvaria hamiltonii</i> Hook. f. & Thomson	Annonaceae	<i>Wendlandia coriacea</i> (Wall.) DC.	Rubiaceae
<i>Uvaria hookeri</i> King	Annonaceae	<i>Wendlandia gamblei</i> Cowan	Rubiaceae
<i>Uvaria nicobarica</i> Raizada & K.C.Sahni	Annonaceae	<i>Wendlandia heyneana</i> Wall. ex Wight & Arn.	Rubiaceae
<i>Vahlia digyna</i> (Retz.) Kuntze	Vahliaceae	<i>Wendlandia thyrsoides</i> (Roth) Steud.	Rubiaceae
<i>Valeriana hardwickii</i> Wall.	Caprifoliaceae	<i>Wiesneria triandra</i> (Dalzell) Micheli	Alismataceae
<i>Valeriana jaeschkii</i> C.B.Clarke	Valerianaceae	<i>Willisia selaginoides</i> (Bedd.) Warm. ex Willis	Podostemonaceae
<i>Valeriana jatamansi</i> Jones	Caprifoliaceae	<i>Withania coagulans</i> (Stocks) Dunal	Solanaceae
<i>Valeriana leschenaultii</i> DC	Caprifoliaceae	<i>Woodfordia fruticosa</i> (L.) Kurz	Lythraceae
		<i>Wrightia arborea</i> (Dennst.) Mabb.	Apocynaceae

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## Annexure 1. (Contd)

Species name	Family	Species name	Family
<i>Wrightia dolichocarpa</i> Bahadur & Bennet	Apocyanaceae	<i>Zanthoxylum rhetsa</i> DC.	Rutaceae
<i>Wulfenia himalaica</i> (Hook.f.) Pennell	Scrophulariaceae	<i>Zeuxine lindleyana</i> A.N.Rao	Orchidaceae
<i>Xanthium strumarium</i> L.	Asteraceae	<i>Zeuxine pulchra</i> King & Pantl.	Orchidaceae
<i>Xantolis tomentosa</i> (Roxb.) Raf.	Sapotaceae	<i>Zeuxine strateumatika</i> (L.) Schltr.	Orchidaceae
<i>Xenikophyton smeanum</i> (Rchb.f.) Garay	Orchidaceae	<i>Zeuxine gracilis</i> (Breda) Blume	Orchidaceae
<i>Xylocarpus gangeticus</i> (Prain) C.E.Parkinson	Meliaceae	<i>Zeylanidium barberi</i> (Willis) C. Cusset	Podostemonaceae
<i>Xylocarpus granatum</i> J.Koenig	Meliaceae	<i>Zingiber cernuum</i> Dalzell	Zingiberaceae
<i>Xylosma longifolia</i> Clos	Flacourtiaceae	<i>Zingiber roseum</i> (Roxb.) Roscoe	Zingiberaceae
<i>Xyris indica</i> L.	Xyridaceae	<i>Zingiber rubens</i> Roxb.	Zingiberaceae
<i>Youngia japonica</i> (L.) DC.	Asteraceae	<i>Ziziphus glaberrima</i> (Sedgw.) Santapau	Rhamnaceae
<i>Youngia nilgiriensis</i> Babc.	Asteraceae	<i>Ziziphus horrida</i> Roth	Rhamnaceae
<i>Yushania pantlingii</i> (Gamble) R.B.Majumdar	Poaceae	<i>Ziziphus truncata</i> Blatt. & Hallb.	Rhamnaceae
<i>Zanthoxylum armatum</i> DC.	Rutaceae	<i>Zornia cantoniensis</i> Mohlenbr.	Fabaceae

## Threatened plant conservation protocol: ten steps

- Population inventory, characterization and mapping using ecological niche modelling (ENM).
  - Metapopulation modelling of selected species populations to determine the conservation status, minimum viable population size and to assess extinction risk.
  - Identification of factors responsible for depleting species populations and developing a species-specific recovery strategy.
  - Molecular characterization of the selected species populations to identify those with greater diversity for genetic enrichment based on source-sink concept.
  - Characterization of active principles in selected species in different habitats/populations.
  - Standardizing the macro- and micropropagation techniques for mass multiplication.
  - Reproductive biology of the selected species to address the regeneration failure.
  - Production of planting materials for reintroduction of the species in the areas identified through ENM.
  - Herbarium and establishment of field gene banks at appropriate ecological zones.
  - MoU with Forest Department and communities, and reintroduction with post-introduction monitoring protocol.
- Singh, P. and Dash, S. S., *Plant Discoveries 2013 – New Genera, Species and New Records*, Botanical Survey of India, Kolkata, 2014.
  - Forests MoEF, GoI, India's Fourth National Report to the Convention on Biological Diversity, Ministry of Environment and Forests, Government of India, 2009; [www.moef.nic.in/sites/default/files/India\\_Fourth\\_National\\_Report-FINAL\\_2.pdf](http://www.moef.nic.in/sites/default/files/India_Fourth_National_Report-FINAL_2.pdf)
  - Ravindranath, N. H., Joshi, N. V., Sukumar, R. and Saxena, A., Impact of climate change on forests in India. *Curr. Sci.*, 2006, **90**(3), 354–361.
  - Chitale, V. S., Behera, M. D. and Roy, P. S., Future of endemic flora of biodiversity hotspots in India. *PLoS ONE*, 2014, **9**(12), e115264.
  - Adhikari, D., Tiwary, R. and Barik, S. K., Modelling hotspots for invasive alien plants in India. *PLoS ONE*, 2015, **10**(7), e0134665.
  - Roy, P. S. *et al.*, Development of decadal (1985–1995–2005) land use and land cover database for India. *Remote Sensing*, 2015, **7**(3), 2401–2430.
  - Reaka-Kudla, M. L., Wilson, D. E. and Wilson, E. O. (eds), *Biodiversity II: Understanding and Protecting our Biological Resources*, Joseph Henry Press, Washington, DC, 1996; <https://doi.org/10.17226/4901>.
  - IUCN Red List Categories and Criteria: Version 3.1*, International Union for Conservation of Nature, Gland, Switzerland, UK, 2012, 2nd edn, pp. iv + 32.
  - Jain, S. K. and Rao, R. R. (eds), *An Assessment of Threatened Plants of India*, Botanical Survey of India, Howrah, 1983, pp. 1–334.
  - Nayar, M. P. and Sastry, A. R. K. (eds), *Red Data Book of Indian Plants*, Botanical Survey of India, Calcutta, 1987–1990, vols 3.
  - Rao, C. K., Geetha, B. L. and Suresh, G., *Red List of Threatened Vascular Plant Species in India*, Botanical Survey of India, Howrah, 2003, pp. ix–144.
  - Arisdason, W. and Lakshminarasimhan, P., Status of plant diversity in India: an overview, MoEF, GoI, 2016; [http://www.bsienvi.nic.in/Database/Status\\_of\\_Plant\\_Diversity\\_in\\_India\\_17566.aspx/](http://www.bsienvi.nic.in/Database/Status_of_Plant_Diversity_in_India_17566.aspx/) (accessed on 28 February 2016).
  - Hooker, J. D., *The Flora of British India*, Reeve and Col., London, 1872–1897, vols 1–7.
  - Kanjilal, U. N., Das, A., Kanjilal, P. C. and De, R. N., *Flora of Assam*, Government of Assam, Bishen Singh Mahendra Pal Singh, Dehra Dun, 1939, vol. 3.
  - Kanjilal, U. N., Kanjilal, P. C. and Das, A., *Flora of Assam*, Government of Assam, Bishen Singh Mahendra Pal Singh, Dehra Dun, 1938, vol. 2.

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---

20. Kanjilal, U. N., Kanjilal, P. C., Das, A. and Purkayastha, C., *Flora of Assam*, Government of Assam, Bishen Singh Mahendra Pal Singh, Dehra Dun, 1935, vol. 1.
21. Kanjilal, U. N., Kanjilal, P. C., De, R. N. and Das, A., *Flora of Assam*, Government of Assam, Bishen Singh Mahendra Pal Singh, Dehra Dun, 1940, vol. 4.
22. Bor, N. L., *Flora of Assam*, Government of Assam, Bishen Singh Mahendra Pal Singh, Dehra Dun, 1940, vol. 5.
23. Hajra, P. K., Verma, D. M. and Giri, G. S., *Materials for the Flora of Arunachal Pradesh*, Botanical Survey of India, 1996, vol. 1.
24. Giri, G. S., Pramanik, A. and Chowdhery, H. J., *Materials for the Flora of Arunachal Pradesh*, Botanical Survey of India, Kolkata, 2008, vol. 2.
25. Chowdhery, H. J., Giri, G. S. and Pramanik, A., *Materials for the Flora of Arunachal Pradesh*, Botanical Survey of India, Kolkata, 2009, vol. 3.
26. Molur, S. et al. (eds), *Conservation Assessment and Management Plan (CAMP) for Selected Species of Medicinal Plants of Southern India*, Zoo Outreach Organisation/CBSG, Bangalore, 23–25 February 1995.
27. Molur, S. and Walker, S., *Conservation Assessment and Management Plan (CAMP II) for Selected Species of Medicinal Plants of southern India*, Zoo Outreach Organisation/ CBSG, Coimbatore, 12–14 February 1996.
28. Molur, S. and Walker, S. (eds), *Conservation Assessment and Management Plan for Selected Species of Medicinal Plants of Northern, Northeastern and Central India*, Lucknow, 21–25 January 1997, Zoo Outreach Organisation, Conservation Breeding Specialist Group, Coimbatore, 1998, pp. iv + 64.
29. Ved, D. K. and Tandon, V. (eds), *Conservation Assessment and Management Plan Workshop for High Altitude Medicinal Plants of Jammu-Kashmir and Himachal Pradesh*, FRLHT, Bangalore, 1998, p. 75.
30. Kumar, C. S. et al. (eds), *Conservation Assessment and Management Plan Workshop for Endemic Orchids of the Western Ghats*, Wildlife Information Liaison Development Society Zoo and Outreach Organisation, 2001.
31. Molur, S., Priya, A. R. B. and Walker, S., *Report of the Conservation Assessment and Management Plan Workshop for Non-timber Forest Products of Nilgiri Biosphere Reserve*, Indian Institute of Forest Management, Bhopal, 2001.
32. Ved, D. K. et al. (eds), *Conservation Assessment and Management Prioritization for the Medicinal Plants of Arunachal Pradesh, Assam, Meghalaya and Sikkim*, Lotus Enterprises, Bangalore, 2003.
33. Ved, D. K., Kinhal, G. A., Ravikumar, K., Sankar, R. V. and Haridasan, K., *Conservation Assessment and Management Prioritisation (CAMP) for wild medicinal plants of North-East India*. *Med. Plant Conserv.*, 2005, **11**, 40–44.
34. Goraya, G. S., Jishtu, V., Rawat, G. S. and Ved, D. K., *Wild medicinal plants of Himachal Pradesh: an assessment of their conservation status and management prioritisation*, Himachal Pradesh Forest Department, Shimla, 2013.
35. The IUCN RED List of Threatened Species; [www.iucnredlist.org](http://www.iucnredlist.org)
36. CITES, Checklist of CITES species, 2016; <http://checklist.cites.org/#/en/> (accessed on 14 February 2016).
37. ENVIS Centre on Medicinal Plants – FRLHT; <http://envis.frlht.org/> (accessed on 6 August 2015).
38. National Biodiversity Authority; <http://nbaindia.org/content/18/2/1/notifications.html>
39. Ministry of Environment, Forest and Climate Change, GoI; [www.moef.nic.in](http://www.moef.nic.in)
40. The Plant List, version 1.1. 2013; <http://www.theplantlist.org/> (accessed on 1 January 2015).
41. eFlora of the Botanical Survey of India; <http://efloraindia.nic.in/efloraindia/homePage.action>
42. *Encyclopedia of Life*; <http://eol.org>
43. WCSP, World Checklist of Selected Plant Families. Facilitated by the Royal Botanic Gardens, Kew, 2014; <http://apps.kew.org/wcsp/> (retrieved 2011 onwards).
44. *Flowers of India*; <http://www.flowersofindia.net>
45. India Biodiversity Portal; <http://indiabiodiversity.org/species/>
46. WWF, *Hidden Himalayas: Asia's Wonderlands – New Species Discoveries in the Eastern Himalayas, Volume-II 2009–2014*, World Wide Fund for Nature, India, 2015.
47. Neigel, J. E., Species–area relationships and marine conservation. *Ecol. Appl.*, 2003, **13**(1), 138–145.

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