



Vascular Plants Diversity of Rashtrapati Bhavan Estate, New Delhi, India

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Abstract: The present work was carried out to collect information about different plant species of Rashtrapati Bhavan Estate, New Delhi, India. In present study an attempt has been made to provide an updated checklist of vascular plants from this Estate. The study is based on field survey (2021-22) and previous study of Rashtrapati Bhavan Estate. During the present investigation, 620 species of vascular plants categorised under 609 species of Angiosperms, 10 species of Gymnosperms and 01 species of Pteridophyte belonging to 112 families and 444 genera were recorded. The Fabaceae (60 species) (including Mimosaceae, Caesalpiniaceae) is the largest family among Dicots and Poaceae (25 species) is the largest family of Monocots. According to plant habit 240 species of herbs, 192 species of trees, 108 species of shrubs, 49 species of climbers, 20 species of undershrubs, 7 species of lianas, 3 species of woody grasses (bamboos) and 1 species of aquatic herb were found. The life-form classes were determined by the Raunkiaer's normal spectrum which reveals that the most dominant life form was Phanerophytes with 223 species (36%), followed by Therophytes with 174 species (28%), Chamaephytes with 103 species (16%), Lianas with 54 species (9%), Geophytes with 49 species (8%) and Hemicryptophytes contributing with 17 species (3%). The biological spectrum of the Estate and on the basis of life-forms the phytoclimate here was Thero-Chamae-Geo-phytic. Systematic enumeration along with family, common name, habit and life-form is given for each species.

Keywords: Biological spectrum, Delhi, Floristic diversity, Life-form, Rashtrapati Bhavan, Vascular plants

Rashtrapati Bhavan, New Delhi, India, is the residence of the President of the World's largest democracy, symbolizes the strength, the democratic traditions and the secular nature of India. It is situated on Raisina Hills, which is a part of the Aravalli range, extending from Gurugram in the northeast toward Delhi, can be seen immediately to the south, while the fertile Gangetic plains lie to the east. Physiographically, Delhi is dominated by the Yamuna River, the Aravalli Range and the Plains of Delhi, which were formed by alluvial deposits of recent origin. Delhi Ridge, with its four section, the northern, central, south central and southern, is the westernmost extension of the Aravalli range, meeting the Yamuna in two places, the north and east. Besides affecting the temperature of the Thar desert, the Ridge acts as a natural barrier between it and the plains, slowing down dust and wind movement from the desert. This green belt has other known benefits for the local people, too. There are two main geographical features of Delhi, including the Yamuna and the Aravali hill range. The Aravali hill range is covered with forests and is called the Ridge Forest; it is the city's lungs and keeps its environment in balance. Earlier, Maheshwari (1963, 1966), Dakshini and Vijayaraghavan (1970), Viswanathan et al (1982, 1984), Viswanathan and Singh (1986), Sharma and

Ahmad (1990a,b, 1991), Sharma (1994, 1997 & 2002), Lal et al (2002), Kumar and Yadav (2005), Naithani et al (2006), Krishen (2006) and Mishra et al (2015a-d, 2019) studied vegetation of Delhi.

Rashtrapati Bhavan Estate is rich in floristic diversity due to the presence of many man made gardens like Mughal Gardens, Herbal Gardens, Spiritual Garden, Bio-fuel and Biodiversity Park, Nakshatra Garden, Bonsai Garden, Cactus Garden and Vegetable Garden (Dalikhana). Earlier, Singh (2007a,b) has published the Trees of Rashtrapati Bhavan (160 tree species with their uses) and pictorial book entitled 'Roses of Mughal Garden' described all the varieties of Roses present in Mughal Gardens. Baviskar (2016) published a book entitled 'First Garden of The Republic' described some important flora and fauna of Rashtrapati Bhavan. After this, no detailed study has been done about the complete flora of Rashtrapati Bhavan Estate. This paper provides complete and elaborated vegetation composition along with biological spectrum of Rashtrapati Bhavan Estate.

MATERIAL AND METHODS

Study area: Delhi is situated in northern part of India and located between latitudes of 28°-24'-17" to 28°-53'-00" North

and longitudes of 76°-50'-24" to 77°-20'-37" East. The area of Delhi is 1,483 sq. km with maximum length of 51.90 kms and width of 48.48 kms. Delhi shares its border with the States of Uttar Pradesh and Haryana while bordered on the south-west by a Ridge. The Rashtrapati Bhavan Estate is situated on Raisina Hills, New Delhi, India with latitude 28°-36'-52" North and longitude 77°-11'-59 East with lush green area dominated by various species of trees, shrubs, herbs and climbers which are mostly cultivated and some are naturally occurring in the Ridge Forest of the Estate.

Data collection: Systematic survey of vascular plants was conducted during 2021-2022 in different seasons. The voucher specimens were dried, pressed and mounted on herbarium sheets following Jain and Rao (1977) and deposited in Patanjali Research Foundation Herbarium (PRFH), Haridwar, Uttarakhand for future reference and records. The currently accepted botanical names and authorities were updated following <http://www.ipni.org> and the families were updated following Chase et al. (2016) (APG IV). The plant species detail includes scientific name, family, common name(s), habit and life-form (Table 2). In the present investigation, Raunkiaer's normal spectrum as modified by Ellenberg and Mueller-Dombois (1974) has been followed to study the phytoclimate. The form, habit, height and nature of perennating buds were carefully noted in the field. All the plants of this area are categorized into Chamaephytes (Ch), Geophytes (G), Therophytes (Th), Hemicryptophytes (H), Lianas (L) and Phanerophytes (Ph) life-form classes.

RESULTS AND DISCUSSION

The vegetation of the Rashtrapati Bhavan Estate comprised of cultivated and naturally occurring species belonging to herbs, shrubs, under-shrubs, climbers, lianas and trees. Cultivated species are representing the ornamental plants of British origin on one hand and the European origin on the other, besides the plants of Indian origin. This area is rich in floristic diversity due to the presence of many man made gardens like Mughal Gardens, Herbal Gardens, Spiritual Garden, Bio-fuel and Biodiversity Park, Nakshatra Garden, Bonsai Garden, Cactus Garden, Vegetable Garden (Dalikhana), Nutrition Garden and the recently constructed Arogya Vanam and also a natural forest known as Ridge Forest, which is rich in naturally occurring vegetation. In present study 620 species of vascular plants belonging to 444 genera and 112 families were reported in which 01 Pteridophyte, 10 Gymnosperms and 609 species of Angiosperms were present. Furthermore, 51 families found were monogeneric and 42 were monospecific. Checklist of plant species with their scientific name, family, common name(s), habit and life-form is given in Table 2. *Nephrolepis*

cordifolia (L.) C.Presl commonly cultivated as ornamental plant in pteridophyte group is found in the Rashtrapati Bhavan Estate. In gymnosperms group 10 species belonging to 7 genera and 4 families were reported. The largest genus is *Araucaria* Juss. having 3 species followed by *Juniperus* L. (02 species) and *Agathis* Salisb., *Cupressus* L., *Cycas* L., *Pinus* L., *Platycladus* Spach (01 species each). All the species present here are ornamental and cultivated to beautify the surroundings of The Rashtrapati Bhavan Estate.

Angiosperms (flowering plants) are largest plant group in this study area having 609 species (510 dicotyledons and 99 monocotyledons) belonging to 436 genera and 107 families. Among the ten dominant families, Fabaceae is the largest family having 60 species followed by Asteraceae (36), Poaceae and Malvaceae (26 each), Cactaceae (25), Apocynaceae (25), Asparagaceae (24), Moraceae (19), Lamiaceae (18) and Brassicaceae (17) respectively. As per habit, these plants are classified into 239 herbs, 183 trees, 107 shrubs, 49 climbers, 20 undershrubs, 07 lianas, 03 woody grasses and 01 aquatic herb. Naithani et al. (2006) reported 414 species of angiosperms belonging to 270 genera and 80 families from Ridge Forest of Delhi, out of 37 species belonging to 36 genera were new records for Delhi region. Mishra et al (2015a) published a list of floral diversity

Table 1. Life-form and biological spectrum of plants of the Rashtrapati Bhavan Estate, New Delhi, India

Life form	No. of plants	Rashtrapati bhavan	Raunkiaer's spectrum
Chamaephytes (Ch)	103	16%	9%
Geophytes (G)	49	8%	6%
Therophytes (Th)	174	28%	13%
Hemicryptophytes (H)	17	3%	26%
Lianas (L)	54	9%	*
Phanerophytes (Ph)	223	36%	46%

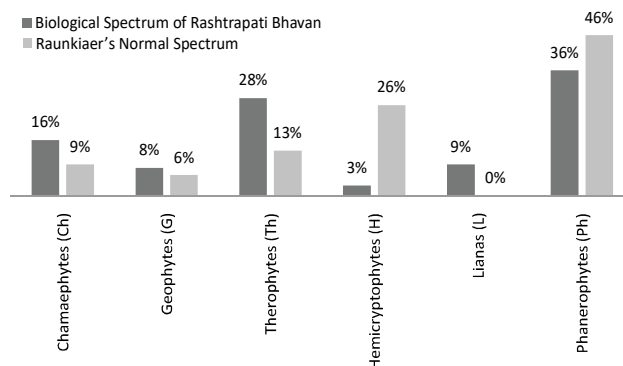


Fig. 1. Comparison of life-form and biological spectrum of plants of the Rashtrapati Bhavan estate, New Delhi, India with Raunkiaer's Normal Spectrum

Table 2. Vascular Plants of the Rashtrapati Bhavan Estate, New Delhi, India

S. No.	Botanical name	Family	Common name	Habit	Life Form
Pteridophytes					
1	<i>Nephrolepis cordifolia</i> (L.) C.Presl	Polypodiaceae	Fishbone fern, Tuber ladder fern	Herb	G
Gymnosperms					
1	<i>Agathis robusta</i> (C.Moore ex F.Muell.) F.M.Bailey	Araucariaceae	Kauri Pine, Queensland Kauri	Tree	Ph
2	<i>Araucaria columnaris</i> (G.Forst.) Hook.	Araucariaceae	Christmas Tree, New Caledonia Pine	Tree	Ph
3	<i>Araucaria cunninghamii</i> Mudie	Araucariaceae	Colonial Pine, Hoop Pine	Tree	Ph
4	<i>Araucaria heterophylla</i> (Salisb.) Franco	Araucariaceae	Norfolk Island Pine, Norfolk Pine	Tree	Ph
5	<i>Cupressus sempervirens</i> L.	Cupressaceae	Italian Cypress, Graveyard Cypress	Tree	Ph
6	<i>Cycas revoluta</i> Thunb.	Cycadaceae	King Sago Palm, Sago Cycad	Tree	Ph
7	<i>Juniperus chinensis</i> L.	Cupressaceae	Chinese Juniper	Tree	Ph
8	<i>Juniperus procumbens</i> (Siebold ex Endl.) Miq.	Cupressaceae	Japanese Garden Juniper	Shrub	Ch
9	<i>Pinus roxburghii</i> Sarg.	Pinaceae	Himalayan Longleaf Pine, Chir, Saral	Tree	Ph
10	<i>Platycladus orientalis</i> (L.) Franco	Cupressaceae	Oriental Thuja, Morpankhi	Tree	Ph
Angiosperms (Dicotyledons)					
1	<i>Abelmoschus esculentus</i> (L.) Moench	Malvaceae	Lady's Finger, Okra	Undershrub	Th
2	<i>Abelmoschus moschatus</i> Medik.	Malvaceae	Musk Mallow, Mushkdana, kasturidana	Undershrub	Th
3	<i>Abroma augustum</i> (L.) L.f.	Malvaceae	Devil's Cotton, Ulatkambal	Shrub	Ph
4	<i>Abrus precatorius</i> L.	Fabaceae	Coral Bead Vine, Gunja, Ratti	Climber	L
5	<i>Abutilon indicum</i> (L.) Sweet	Malvaceae	Indian Mallow, Kanghi	Undershrub	Th
6	<i>Abutilon ramosum</i> (Cav.) Guill. & Perr.	Malvaceae	Sticky Indian Mallow	Undershrub	Th
7	<i>Acacia auriculiformis</i> A.Cunn. ex Benth.	Fabaceae	Earleaf Acacia	Tree	Ph
8	<i>Acalypha indica</i> L.	Euphorbiaceae	Indian Copperleaf, Kuppi	Herb	Th
9	<i>Acalypha wilkesiana</i> Müll.Arg.	Euphorbiaceae	Copperleaf, Joseph's Coat, Fire-dragon	Shrub	Ch
10	<i>Acanthocereus tetragonus</i> (L.) Hummelinck	Cactaceae	Fairy Castle Cactus, Triangle Cactus	Shrub	Ph
11	<i>Achyranthes aspera</i> L.	Amaranthaceae	Prickly Chaff Flower, Chirchita, Apamarga	Herb	Th
12	<i>Adansonia digitata</i> L.	Malvaceae	African Baobab, Gorakh Imli	Tree	Ph
13	<i>Adenium obesum</i> (Forssk.) Roem. & Schult.	Apocynaceae	Desert Rose	Shrub	Ph
14	<i>Aegle marmelos</i> (L.) Corrêa	Rutaceae	Bengal Quince, Wood Apple, Bael	Tree	Ph
15	<i>Ageratum conyzoides</i> L.	Asteraceae	Goat Weed, Bhakumbhar	Herb	Th
16	<i>Ageratum houstonianum</i> Mill.	Asteraceae	Floss Flower, Bluemink, Nilo Gandhe	Herb	Th
17	<i>Agrostemma githago</i> L.	Caryophyllaceae	Corn Cockle	Herb	Th
18	<i>Ailanthus excelsa</i> Roxb.	Simaroubaceae	Indian Tree of Heaven, Marukh, Aralu	Tree	Ph
19	<i>Albizia lebeck</i> (L.) Benth.	Fabaceae	Black Siris, Siris	Tree	Ph
20	<i>Albizia procera</i> (Roxb.) Benth.	Fabaceae	White Siris, Safed Siris	Tree	Ph
21	<i>Alcea rosea</i> L.	Malvaceae	Hollyhock, Gulkhaira	Herb	Th
22	<i>Alstonia scholaris</i> (L.) R.Br.	Apocynaceae	Blackboard Tree, Saptaparni	Tree	Ph
23	<i>Alternanthera brasiliana</i> (L.) Kuntze	Amaranthaceae	Joy Weed, Joseph's Coat, Copperleaf	Herb	Th
24	<i>Alternanthera philoxeroides</i> (Mart.) Griseb.	Amaranthaceae	Alligator Weed	Herb	G

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Table 2. Vascular Plants of the Rashtrapati Bhavan Estate, New Delhi, India

S. No.	Botanical name	Family	Common name	Habit	Life Form
25	<i>Amaranthus blitum</i> L.	Amaranthaceae	Spreading Pigweed, Chaulai	Herb	Th
26	<i>Amaranthus hybridus</i> L.	Amaranthaceae	Red Amaranth, Chaulai	Herb	Th
27	<i>Amaranthus viridis</i> L.	Amaranthaceae	Green Amaranth, Pigweed, Jangali Chaulayi	Herb	Th
28	<i>Amberboa moschata</i> (L.) DC.	Asteraceae	Sweet Sultan	Herb	Th
29	<i>Andrographis paniculata</i> (Burm.f.) Nees	Acanthaceae	Creat, Kala Chiryata, Kalmegh	Herb	Th
30	<i>Anethum graveolens</i> L.	Apiaceae	Dill, Soya	Herb	Th
31	<i>Annona reticulata</i> L.	Annonaceae	Bullock's Heart, Ramphal, Lavani	Tree	Ph
32	<i>Annona squamosa</i> L.	Annonaceae	Sugar Apple, Sharifa, Sitaphal	Tree	Ph
33	<i>Antigonon leptopus</i> Hook. & Arn.	Polygonaceae	Coral Vine, Mexican Creeper, Love Vine	Liana	L
34	<i>Antirrhinum majus</i> L.	Plantaginaceae	Dog flower, Snapdragon	Herb	Th
35	<i>Argemone mexicana</i> L.	Papaveraceae	Mexican Prickly Poppy, Pili Kateli, Swarnskhiri	Herb	Th
36	<i>Argyreia nervosa</i> (Burm.f.) Bojer	Convolvulaceae	Silky Elephant Glory, Vidhara	Liana	L
37	<i>Artabotrys hexapetalus</i> (L.f.) Bhandari	Annonaceae	Ylang Vine, Hara Champa	Shrub	Ph
38	<i>Artemisia annua</i> L.	Asteraceae	Sweet Wormwood, Quinghaou	Herb	Th
39	<i>Artemisia nilagirica</i> (C.B. Clarke) Pamp.	Asteraceae	Nilgiri Wormwood, Indian Wormwood, Nagdona	Shrub	Ch
40	<i>Artocarpus heterophyllus</i> Lam.	Moraceae	Jackfruit, Katahal	Tree	Ph
41	<i>Artocarpus lacucha</i> Buch.-Ham.	Moraceae	Lakoocha, Monkey Jack, Barhal	Tree	Ph
42	<i>Atocion armeria</i> (L.) Raf.	Caryophyllaceae	Catchfly, Sweet William Catchfly	Herb	Th
43	<i>Azadirachta indica</i> A.Juss.	Meliaceae	Margosa, Neem	Tree	Ph
44	<i>Bacopa monnieri</i> (L.) Wettst.	Plantaginaceae	Indian pennywort, Water hyssop, Brahmi, Jalbuti, Jainim, Brahmi, Somvalli	Herb	Th
45	<i>Balanites roxburghii</i> Planch.	Zygophyllaceae	Desert Date, Hingot, Hingan	Tree	Ph
46	<i>Barleria cristata</i> L.	Acanthaceae	Crested Philippine Violet, Nil Jhinti	Shrub	Ch
47	<i>Barleria lupulina</i> Lindl.	Acanthaceae	Hophead	Shrub	Ch
48	<i>Barleria prionitis</i> L.	Acanthaceae	Common Yellow Nail Dye, Pila Piyabansa	Shrub	Ch
49	<i>Basella alba</i> L.	Basellaceae	Indian Spinach, Vine Spinach, Poi	Climber	L
50	<i>Bassia scoparia</i> (L.) A.J.Scott	Amaranthaceae	Summer Cypress, Kochia	Herb	Th
51	<i>Bauhinia × blakeana</i> Dunn	Fabaceae	Hong Kong Orchid-Tree	Tree	Ph
52	<i>Bauhinia acuminata</i> L.	Fabaceae	Dwarf White Orchid Tree, Safed Kachnar	Tree	Ph
53	<i>Bauhinia purpurea</i> L.	Fabaceae	Purple Orchid Tree, Kachnar, Kaniar	Tree	Ph
54	<i>Bauhinia tomentosa</i> L.	Fabaceae	Yellow Orchid Tree, Peet Kachnar	Tree	Ph
55	<i>Bauhinia variegata</i> L.	Fabaceae	Orchid Tree, Kachnar	Tree	Ph
56	<i>Bauhinia variegata</i> var. <i>candida</i> Voigt	Fabaceae	White Orchid Tree, Safed Kachnar	Tree	Ph
57	<i>Begonia cucullata</i> Willd.	Begoniaceae	Clubbed Begonia	Herb	Th
58	<i>Beta vulgaris</i> L.	Amaranthaceae	Beet, Chukandar	Herb	G
59	<i>Bischofia javanica</i> Blume	Phyllanthaceae	Bishop Wood, Paniala, Bhillar	Tree	Ph
60	<i>Blepharis maderaspatensis</i> (L.) B.Heyne ex Roth	Acanthaceae	Creeping Blepharis, Utangan	Herb	Th
61	<i>Blumea lacera</i> (Burm.f.) DC.	Asteraceae	Lettuce-Leaf Blumea, Jangli Muli	Herb	Th
62	<i>Boerhavia repens</i> L.	Nyctaginaceae	Anena, Creeping Spiderling	Herb	H

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66	<i>Bougainvillea glabra</i> Choisy	Nyctaginaceae	Bougainvillea, Paperflower, Booganbel	Shrub	Ph
67	<i>Brachychiton australis</i> (Schott & Endl.) A.Terracc.	Malvaceae	Broad Leaved Bottle Tree	Tree	Ph
68	<i>Brassica campestris</i> var. sarson Prain	Brassicaceae	Yellow Sarson, Sarson	Herb	Th
69	<i>Brassica juncea</i> (L.) Czern.	Brassicaceae	Indian Mustard, Brown Mustard, Rai	Herb	Th
70	<i>Brassica oleracea</i> var. botrytis L.	Brassicaceae	Cauliflower, Phool Gobhi	Herb	Th
71	<i>Brassica oleracea</i> var. capitata L.	Brassicaceae	Cabbage, Band Gobhi, Patta Gobhi	Herb	Th
72	<i>Brassica oleracea</i> var. gongylodes L.	Brassicaceae	Kohlrabi, Knol Khol, Ganthgobhi	Herb	G
73	<i>Brassica oleracea</i> var. italica Plenck	Brassicaceae	Broccoli, Hari Gobhi	Herb	Th
74	<i>Brassica oleracea</i> var. sabellica L.	Brassicaceae	Ornamental Cabbage, Ornamental Kale	Herb	Th
75	<i>Brassica rapa</i> L.	Brassicaceae	Turnip, Shaljam	Herb	Th
76	<i>Buddleja madagascariensis</i> Lam.	Scrophulariaceae	Madagascar Butterfly Bush	Shrub	Ph
77	<i>Butea monosperma</i> (Lam.) Kuntze	Fabaceae	Flame of the Forest, Dhak, Palash	Tree	Ph
78	<i>Calceolaria × herbeohybrida</i> Voss	Calceolariaceae	Lady's Purse, Pocketbook Plant	Herb	Th
79	<i>Calendula officinalis</i> L.	Asteraceae	Calendula, Pot Marigold, Gul-e-Ashrafi	Herb	Th
80	<i>Calliandra haematocephala</i> Hassk.	Fabaceae	Red Powder Puff	Shrub	Ph
81	<i>Calotropis gigantea</i> (L.) W.T.Aiton	Apocynaceae	Crown Flower, Safed Aak	Shrub	Ch
82	<i>Calotropis procera</i> (Aiton) W.T.Aiton	Apocynaceae	Rubber Bush, Sodom Apple, Aak, Madar	Shrub	Ch
83	<i>Calyptocarpus vialis</i> Less.	Asteraceae	Straggler Daisy, Sprawling Horseweed	Herb	Th
84	<i>Campsis radicans</i> (L.) Seem. ex Bureau	Bignoniaceae	Trumpet Vine	Climber	L
85	<i>Cannabis sativa</i> L.	Cannabaceae	Marijuana, Hemp, Bhang	Shrub	Ch
86	<i>Capparis decidua</i> (Forssk.) Edgew.	Capparaceae	Bare Caper, Kair, Kareel	Tree	Ph
87	<i>Capparis sepiaria</i> L.	Capparaceae	Wild Caper Bush, Hedge Caper, Kanthari	Shrub	Ch
88	<i>Capsella bursa-pastoris</i> (L.) Medik.	Brassicaceae	Shepherd's Purse	Herb	Th
89	<i>Capsicum annum</i> L.	Solanaceae	Chilli, Paprika, Mirch	Herb	Th
90	<i>Cardamine flexuosa</i> With.	Brassicaceae	Wood Bitter Cress, Wavy Bitter Cress	Herb	Th
91	<i>Carica papaya</i> L.	Caricaceae	Papaya, Melon Tree, Papita	Tree	Ph
92	<i>Carissa carandas</i> L.	Apocynaceae	Karanda, Karonda	Shrub	Ph
93	<i>Carissa spinarum</i> L.	Apocynaceae	Wild Karanda, Jangli Karonda	Shrub	Ph
94	<i>Cascabela thevetia</i> (L.) Lippold	Apocynaceae	Yellow Oleander, Peeli Kaner	Tree	Ph
95	<i>Cassia fistula</i> L.	Fabaceae	Golden Shower Tree, Amaltas	Tree	Ph
96	<i>Cassia javanica</i> L.	Fabaceae	Java Cassia, Pink Shower	Tree	Ph
97	<i>Casuarina equisetifolia</i> L.	Casuarinaceae	Whistling Pine, Jangli Saru	Tree	Ph
98	<i>Catharanthus roseus</i> (L.) G.Don	Apocynaceae	Periwinkle, Sadabahar	Undershrub	Ch
99	<i>Ceiba speciosa</i> (A.St.-Hil., A.Juss. & Cambess.) Ravenna	Malvaceae	Silk Floss Tree, Kapok, Resham Rui	Tree	Ph
100	<i>Celastrus paniculatus</i> Willd.	Celastraceae	Intellect Plant, Malkangani	Liana	L
101	<i>Celosia cristata</i> L.	Amaranthaceae	Cockscomb, Lalmurga	Herb	Th
102	<i>Celtis tetrandra</i> Roxb.	Cannabaceae	Nilgiri Elm, Khirk	Tree	Ph
103	<i>Centaurea cyanus</i> L.	Asteraceae	Cornflower, Bachelor's Button	Herb	Th
104	<i>Centella asiatica</i> (L.) Urb.	Apiaceae	Indian Pennywort, Ballari, Manduki	Herb	H
105	<i>Cestrum diurnum</i> L.	Solanaceae	King of the Day, Din ka Raja	Shrub	Ph
106	<i>Cestrum nocturnum</i> L.	Solanaceae	Lady of the Night, Rat ki Rani	Shrub	Ph

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S. No.	Botanical name	Family	Common name	Habit	Life Form
107	<i>Chenopodiastrum murale</i> (L.) S.Fuentes, Uotila & Borsch	Amaranthaceae	Nettle-Leaved Goosefoot, Goyal, Khartua	Herb	Th
108	<i>Chenopodium album</i> L.	Amaranthaceae	White Goosefoot, Bathua	Herb	Th
109	<i>Chrysanthemum indicum</i> L.	Asteraceae	Indian Chrysanthemum, Chandramallika	Herb	Th
110	<i>Chukrasia tabularis</i> A.Juss.	Meliaceae	Chittagong Wood, Indian Redwood, Chikrasi	Tree	Ph
111	<i>Cicer arietinum</i> L.	Fabaceae	Chickpea, Gram, Chana	Herb	Th
112	<i>Cinnamomum camphora</i> (L.) J.Presl	Lauraceae	Camphor Tree, Kapur	Tree	Ph
113	<i>Cinnamomum verum</i> J.Presl	Lauraceae	Cinnamon, Dalchini	Tree	Ph
114	<i>Cirsium arvense</i> (L.) Scop.	Asteraceae	Creeping Thistle, Field Thistle	Herb	Th
115	<i>Cissampelos pareira</i> L.	Menispermaceae	Velvet Leaf, Akanadi	Climber	L
116	<i>Cissus quadrangularis</i> L.	Vitaceae	Veldt Grape, Bone Setter, Hadjod	Climber	L
117	<i>Citrus × aurantiifolia</i> (Christm.) Swingle	Rutaceae	Lime, Kaghzi Nimbu	Tree	Ph
118	<i>Citrus × limon</i> (L.) Osbeck	Rutaceae	Lemon, Nimbu, Bada Nimbu	Tree	Ph
119	<i>Citrus × reticulata</i> Blanco	Rutaceae	Mandarin Orange, Orange, Santara	Tree	Ph
120	<i>Citrus × sinensis</i> (L.) Osbeck	Rutaceae	Sweet Orange, Mosambi	Tree	Ph
121	<i>Citrus japonica</i> Thunb.	Rutaceae	Round Kumquat	Tree	Ph
122	<i>Citrus maxima</i> (Burm.) Merr.	Rutaceae	Pomelo, Chinese Grapefruit, Chakotara	Tree	Ph
123	<i>Citrus reticulata</i> cv. <i>kinnow</i> Blanco.	Rutaceae	Kinnow	Tree	Ph
124	<i>Clarkia unguiculata</i> Lindl.	Onagraceae	Elegant Clarkia, Mountain Garland	Herb	Th
125	<i>Cleistocactus winteri</i> D.R.Hunt	Cactaceae	-	Shrub	Ch
126	<i>Clematis flammula</i> L.	Ranunculaceae	Fragrant Virgin's Bower, Fragrant Clematis	Climber	L
127	<i>Cleretum bellidiforme</i> (Burm.f.) G.D.Rowley	Aizoaceae	Ice Plant, Livingston Daisy, Burf Pushp	Herb	Th
128	<i>Clerodendrum indicum</i> (L.) Kuntze	Lamiaceae	Tubeflower, Bharangi	Shrub	Ch
129	<i>Clerodendrum phlomidis</i> L.f.	Lamiaceae	Sage Glory Bower, Arni	Shrub	Ch
130	<i>Clerodendrum splendens</i> G.Don	Lamiaceae	Flaming Glorybower, Pagoda Flower	Climber	L
131	<i>Clitoria ternatea</i> L.	Fabaceae	Butterfly Pea, Aparajita	Climber	L
132	<i>Coccinia grandis</i> (L.) Voigt	Cucurbitaceae	Ivy Gourd, Kanduri, Kundru	Climber	L
133	<i>Cocculus hirsutus</i> (L.) W.Theob.	Menispermaceae	Broom Creeper, Jaljamni, Patala Garudi	Climber	L
134	<i>Coleus scutellarioides</i> (L.) Benth.	Lamiaceae	Coleus	Herb	Th
135	<i>Combretum indicum</i> (L.) DeFilipps	Combretaceae	Rangoon Creeper, Madhu Malati	Liana	L
136	<i>Commiphora madagascariensis</i> Jacq.	Burseraceae	Madagascar Corkwood	Tree	Ph
137	<i>Commiphora wightii</i> (Arn.) Bhandari	Burseraceae	Indian Bdellium Tree, Guggul	Tree	Ph
138	<i>Convolvulus arvensis</i> L.	Convolvulaceae	Field Bindweed, Hiranpug	Herb	Th
139	<i>Convolvulus prostratus</i> Forssk.	Convolvulaceae	Prostrate Bindweed, Shankh Pushpi	Herb	Th
140	<i>Corchorus olitorius</i> L.	Malvaceae	Nalta Jute, Jew's Mallow, Pat	Herb	Th
141	<i>Cordia dichotoma</i> G.Forst.	Boraginaceae	Indian Cherry, Fragrant Manjack, Lasora	Tree	Ph
142	<i>Coreopsis auriculata</i> L.	Asteraceae	Mouse Ear Tickseed	Herb	Th
143	<i>Coriandrum sativum</i> L.	Apiaceae	Coriander, Dhaniya	Herb	Th
144	<i>Corymbia citriodora</i> (Hook.) K.D.Hill & L.A.S.Johnson	Myrtaceae	Lemon Scented Gum, Lemon Eucalyptus, Safeda	Tree	Ph
145	<i>Cosmos sulphureus</i> Cav.	Asteraceae	Sulphur Cosmos, Orange Cosmos	Herb	Th
146	<i>Cotula australis</i> Hook.f.	Asteraceae	Australian Buttonweed	Herb	Th

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Table 2. Vascular Plants of the Rashtrapati Bhavan Estate, New Delhi, India

S. No.	Botanical name	Family	Common name	Habit	Life Form
147	<i>Crateva adansonii</i> subsp. odora (Buch.-Ham.) Jacobs	Capparaceae	Garlic Pear Tree, Barna, Barni	Tree	Ph
148	<i>Crescentia alata</i> Kunth	Bignoniaceae	Winged Calabash, Kamandal	Tree	Ph
149	<i>Crossandra infundibuliformis</i> (L.) Nees	Acanthaceae	Firecracker Flower, Priyadarsha	Shrub	Ch
150	<i>Cucurbita maxima</i> Duchesne	Cucurbitaceae	Giant Pumpkin, Red Pumpkin, Kaddu	Climber	L
151	<i>Cullen corylifolium</i> (L.) Medik.	Fabaceae	Scurfy Pea, Babachi, Bakuchi	Herb	Th
152	<i>Cuscuta campestris</i> Yunck.	Convolvulaceae	Golden Dodder, Field Dodder	Climber	L
153	<i>Cuscuta reflexa</i> Roxb.	Convolvulaceae	Giant Dodder, Amarbel, Akashbel	Climber	L
154	<i>Cyamopsis tetragonoloba</i> (L.) Taub.	Fabaceae	Guar, Gum Bean, Gavar	Herb	Th
155	<i>Cyanthillium cinereum</i> (L.) H.Rob.	Asteraceae	Little Ironweed, Sahadevi	Herb	Th
156	<i>Dahlia imperialis</i> Roezl ex Orgies	Asteraceae	Tree Dahlia	Herb	G
157	<i>Dahlia pinnata</i> Cav.	Asteraceae	Garden Dahlia	Herb	G
158	<i>Dalbergia sissoo</i> Roxb. ex DC.	Fabaceae	Indian Rosewood, Shisham	Tree	Ph
159	<i>Datura metel</i> L.	Solanaceae	Devil's Trumpet, Dhatura	Undershrub	Ch
160	<i>Daucus carota</i> subsp. sativus (Hoffm.) Schübl. & G.Martens	Apiaceae	Carrot, Gajar	Herb	G
161	<i>Delonix regia</i> (Bojer ex Hook.) Raf.	Fabaceae	Flame Tree, Gulmohar	Tree	Ph
162	<i>Delphinium ajacis</i> L.	Ranunculaceae	Larkspur, Rocket larkspur, Annual Delphinium	Herb	Th
163	<i>Delphinium elatum</i> L.	Ranunculaceae	Alpine Delphinium, Candle Larkspur	Herb	Th
164	<i>Dianthus barbatus</i> L.	Caryophyllaceae	Sweet William	Herb	Th
165	<i>Dianthus chinensis</i> L.	Caryophyllaceae	Chinese Pink, Rainbow Pink	Herb	Th
166	<i>Dichrostachys cinerea</i> (L.) Wight & Arn.	Fabaceae	Sickle Bush Ashy Babool, Kheri	Tree	Ph
167	<i>Dicliptera paniculata</i> (Forssk.) I.Darbysh.	Acanthaceae	Panicled Foldwing, Kakajangha	Herb	Th
168	<i>Dillenia indica</i> L.	Dilleniaceae	Elephant Apple, Chalta	Tree	Ph
169	<i>Dimorphotheca pluvialis</i> (L.) Moench	Asteraceae	White African Daisy, Rain Daisy	Herb	Th
170	<i>Diospyros malabarica</i> (Desr.) Kostel.	Ebenaceae	Gaub, Malabar Ebony, Gaab, Kala Tendu	Tree	Ph
171	<i>Diospyros montana</i> Roxb.	Ebenaceae	Bombay Ebony, Bistendu	Tree	Ph
172	<i>Dombeya spectabilis</i> Bojer	Malvaceae	Dombey, Showy Dombeya	Tree	Ph
173	<i>Duranta erecta</i> L.	Verbenaceae	Sky Flower, Pigeon Berry, Nilkanta	Shrub	Ph
174	<i>Echinopsis famatimensis</i> (Speg.) Werderm.	Cactaceae	-	Shrub	Ch
175	<i>Echinopsis oxygona</i> (Link) Zucc. ex Pfeiff. & Otto	Cactaceae	-	Shrub	Ch
176	<i>Eclipta prostrata</i> (L.) L.	Asteraceae	False Daisy, Bhringaraj	Herb	Th
177	<i>Ehretia acuminata</i> R.Br.	Boraginaceae	Koda Tree, Brown Cedar, Bakli, Pania	Tree	Ph
178	<i>Ehretia laevis</i> Roxb.	Boraginaceae	Chamror, Datranga, Tamoriya	Tree	Ph
179	<i>Ehretia microphylla</i> Lam.	Boraginaceae	Fukien Tea, Carmona, Pala	Shrub	Ph
180	<i>Elaeocarpus angustifolius</i> Blume	Elaeocarpaceae	Blue Marble Tree, Rudraksh	Tree	Ph
181	<i>Eriobotrya japonica</i> (Thunb.) Lindl.	Rosaceae	Loquat, Lokat	Tree	Ph
182	<i>Erysimum × cheiri</i> (L.) Crantz	Brassicaceae	Common Wallflower	Herb	Th
183	<i>Erythrina variegata</i> L.	Fabaceae	Indian Coral Tree, Tiger Claw, Pangar	Tree	Ph
184	<i>Eschscholzia californica</i> Cham.	Papaveraceae	California Poppy, Golden Poppy	Herb	Th
185	<i>Eucalyptus camaldulensis</i> Dehnh.	Myrtaceae	River Red Gum, Longbeak Eucalyptus	Tree	Ph

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Table 2. Vascular Plants of the Rashtrapati Bhavan Estate, New Delhi, India

S. No.	Botanical name	Family	Common name	Habit	Life Form
186	<i>Euphorbia helioscopia</i> L.	Euphorbiaceae	Sun Spurge, Hirruseeah, Dudhya	Herb	Th
187	<i>Euphorbia hirta</i> L.	Euphorbiaceae	Common Spurge, Asthma Weed, Bada Dudhi	Herb	Th
188	<i>Euphorbia milii</i> Des Moul.	Euphorbiaceae	Giant Crown of Thorns	Undershrub	Ch
189	<i>Euphorbia nerifolia</i> L.	Euphorbiaceae	Indian Spurge Tree, Danda Thor, Sehund	Shrub	Ph
190	<i>Euphorbia prostrata</i> Aiton	Euphorbiaceae	Prostrate Spurge, Prostrate Sandmat	Herb	Th
191	<i>Euphorbia pulcherrima</i> Willd. ex Klotzsch	Euphorbiaceae	Poinsettia	Shrub	Ph
192	<i>Euphorbia serpens</i> Kunth	Euphorbiaceae	Matted Sandmat, Roundleaf Spurge, Dudhi	Herb	Th
193	<i>Euphorbia tithymaloides</i> L.	Euphorbiaceae	Devil's Backbone, Slipper Spurge, Redbird Cactus	Undershrub	Ch
194	<i>Evolvulus nummularius</i> (L.) L.	Convolvulaceae	Roundleaf Bindweed, Safed shankhpushpi, Musakarni	Herb	H
195	<i>Fernandoa adenophylla</i> (Wall. ex G.Don) Steenis	Bignoniaceae	Katsagon, Marodphali	Tree	Ph
196	<i>Ferocactus latispinus</i> (Haw.) Britton & Rose	Cactaceae	-	Shrub	Ch
197	<i>Ficus altissima</i> Blume	Moraceae	Lofty Fig, Council Tree	Tree	Ph
198	<i>Ficus amplissima</i> Sm.	Moraceae	Indian Bat Fig, Pipri, Pakri	Tree	Ph
199	<i>Ficus auriculata</i> Lour.	Moraceae	Elephant Ear Fig, Roxburgh Fig, Fagoora, Timla	Tree	Ph
200	<i>Ficus benghalensis</i> L.	Moraceae	Banyan Tree, Bargad, Bad	Tree	Ph
201	<i>Ficus benjamina</i> L.	Moraceae	Weeping Fig, Benjamin's Fig, Pukar	Tree	Ph
202	<i>Ficus carica</i> L.	Moraceae	Common Fig, Anjeer	Tree	Ph
203	<i>Ficus elastica</i> Roxb. ex Hornem.	Moraceae	Indian Rubber Tree, Rubber Fig	Tree	Ph
204	<i>Ficus krishnae</i> C.DC.	Moraceae	Krishna's Butter Cup, Makhan Katori, Krisna Badh	Tree	Ph
205	<i>Ficus lyrata</i> Warb.	Moraceae	Fiddle Leaf Fig	Tree	Ph
206	<i>Ficus maclellandii</i> King	Moraceae	Willow Fig, Alii Fig, Banana-leaf Fig	Tree	Ph
207	<i>Ficus microcarpa</i> L.f.	Moraceae	Laurel Fig, Indian Laurel, Kamarup	Tree	Ph
208	<i>Ficus palmata</i> subsp. <i>virgata</i> Browicz	Moraceae	Punjab Fig, Anjiri, Bedu, Jangli Anjir	Tree	Ph
209	<i>Ficus racemosa</i> L.	Moraceae	Cluster Fig, Gular, Umar	Tree	Ph
210	<i>Ficus religiosa</i> L.	Moraceae	Holy Fig Tree, Peepal	Tree	Ph
211	<i>Ficus virens</i> Aiton	Moraceae	White Fig, Pilkhan, Pakhad	Tree	Ph
212	<i>Flacourtia indica</i> (Burm.f.) Merr.	Salicaceae	Governor's Plum, Bilangada	Tree	Ph
213	<i>Fragaria</i> × <i>ananassa</i> (Duchesne ex Weston) Duchesne ex Rozier	Rosaceae	Strawberry, Alpine Strawberry	Herb	Th
214	<i>Fumaria indica</i> (Hausskn.) Pugsley	Papaveraceae	Indian Fumitory, Pit Papra	Herb	Th
215	<i>Gamochaeta pensylvanica</i> (Willd.) Cabrera	Asteraceae	Pennsylvania Cudweed	Herb	Th
216	<i>Gardenia jasminoides</i> J.Ellis	Rubiaceae	Cape Jasmine, Gardenia, Gandhraj	Shrub	Ch
217	<i>Gazania rigens</i> (L.) Gaertn.	Asteraceae	-	Herb	Th
218	<i>Glebionis coronaria</i> (L.) Cass. ex Spach	Asteraceae	Crown Daisy, Guldaudi	Herb	Th
219	<i>Glycyrrhiza glabra</i> L.	Fabaceae	Liquorice, Mulhatti	Undershrub	Th
220	<i>Gomphrena celosioides</i> Mart.	Amaranthaceae	Cockscomb Gomphrena, Soft Khakiweed, Kasia	Herb	Th
221	<i>Grevillea robusta</i> A.Cunn. ex R.Br.	Proteaceae	Silver Oak, Silk Oak	Tree	Ph

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S. No.	Botanical name	Family	Common name	Habit	Life Form
222	<i>Grewia subinaequalis</i> DC.	Malvaceae	Phalsa, Falsa	Tree	Ph
223	<i>Grewia tenax</i> (Forssk.) Fiori	Malvaceae	White Crossberry, Gondni, Chabeni	Shrub	Ph
224	<i>Grona triflora</i> (L.) H. Ohashi & K. Ohashi	Fabaceae	Creeping Tick Trefoil, Kudaliya	Herb	Ch
225	<i>Guilandina bonduc</i> L.	Fabaceae	Yellow Nicker, Fever Nut, Katkaranj	Shrub	Ph
226	<i>Gymnema sylvestre</i> (Retz.) R.Br. ex Sm.	Apocynaceae	Cowplant, Gurmar	Climber	L
227	<i>Gymnocalycium mihanovichii</i> (Fric ex Gürke) Britton & Rose	Cactaceae	-	Shrub	Ch
228	<i>Gymnocalycium stenopleurum</i> F.Ritter	Cactaceae	-	Shrub	Ch
229	<i>Gypsophila elegans</i> M.Bieb.	Caryophyllaceae	Baby's Breath	Herb	Th
230	<i>Hamelia patens</i> Jacq.	Rubiaceae	Firebush, Hummingbird Bush	Shrub	Ch
231	<i>Handroanthus impetiginosus</i> (Mart. ex DC.) Mattos	Bignoniaceae	Pink Trumpet Tree, Basant Rani	Tree	Ph
232	<i>Hardwickia binata</i> Roxb.	Fabaceae	Indian Blackwood, Anjan	Tree	Ph
233	<i>Hemidesmus indicus</i> (L.) R.Br.	Apocynaceae	Indian Sarsaparilla, Anantamul	Climber	L
234	<i>Heptapleurum arboricola</i> Hayata	Araliaceae	Dwarf Umbrella Tree, Dwarf Schefflera	Shrub	Ch
235	<i>Hibiscus mutabilis</i> L.	Malvaceae	Confederate Rose, Cotton Rose, Sthalkamal	Shrub	Ch
236	<i>Hibiscus rosa-sinensis</i> L.	Malvaceae	China Rose, Gurhal, Japaa	Shrub	Ph
237	<i>Hibiscus sabdariffa</i> L.	Malvaceae	Roselle, Lal Ambari, Patwa	Herb	Ch
238	<i>Hiptage benghalensis</i> (L.) Kurz	Malpighiaceae	Helicopter Flower, Madhavi Lata	Liana	L
239	<i>Holoptelea integrifolia</i> (Roxb.) Planch.	Ulmaceae	Kanju, Chilbil, Indian Elm	Tree	Ph
240	<i>Iberis amara</i> L.	Brassicaceae	Candytuft	Herb	Th
241	<i>Ipomoea aitonii</i> Lindl.	Convolvulaceae	-	Climber	L
242	<i>Ipomoea aquatica</i> Forssk.	Convolvulaceae	Water Morning Glory, Kalmi Sag, Nali	Climber	L
243	<i>Ipomoea batatas</i> (L.) Lam.	Convolvulaceae	Sweet Potato, Shakarkand	Herb	G
244	<i>Ipomoea cairica</i> (L.) Sweet	Convolvulaceae	Railway Creeper, Neeli Bel	Climber	L
245	<i>Ipomoea nil</i> (L.) Roth	Convolvulaceae	Blue Morning Glory, Neelkalmi	Climber	L
246	<i>Ipomoea obscura</i> (L.) Ker Gawl.	Convolvulaceae	Obscure Morning Glory, Lakshmana	Climber	L
247	<i>Ixora finlaysonian</i> Wall. ex G. Don	Rubiaceae	Fragrant Ixora, White Jungle Flame	Shrub	Ch
248	<i>Ixora pavetta</i> Andrews	Rubiaceae	Torch Tree	Shrub	Ch
249	<i>Jacaranda mimosifolia</i> D. Don	Bignoniaceae	Blue Jacaranda, Neeli Gulmohur	Tree	Ph
250	<i>Jacquemontia pentanthos</i> (Jacq.) G. Don	Convolvulaceae	Skyblue Clustervine	Climber	L
251	<i>Jasminum elongatum</i> (P.J. Bergius) Willd.	Oleaceae	Red Kund, Ear-leaf Jasmine	Shrub	Ch
252	<i>Jasminum grandiflorum</i> L.	Oleaceae	Royal Jasmine, Chameli, Jati	Shrub	Ch
253	<i>Jasminum mesnyi</i> Hance	Oleaceae	Primrose Jasmine, Japanese Jasmine, Japani Chameli	Climber	L
254	<i>Jasminum sambac</i> (L.) Aiton	Oleaceae	Arabian Jasmine, Mogra, Bela	Shrub	Ch
255	<i>Jatropha curcas</i> L.	Euphorbiaceae	Physic Nut, Barbados Nut, Ratanjot	Shrub	Ph
256	<i>Jatropha integerrima</i> Jacq.	Euphorbiaceae	Peregrina, Spicy Jatropha	Shrub	Ch
257	<i>Justicia adhatoda</i> L.	Acanthaceae	Malabar Nut, Arusa, Bansa	Shrub	Ch
258	<i>Kalanchoe beharensis</i> Drake	Crassulaceae	Feltbush Kalanchoe, Elephant's Ear Kalanchoe	Shrub	Ch
259	<i>Kalanchoe blossfeldiana</i> Poelln.	Crassulaceae	Kalanchoe, Flaming Katy	Herb	Ch

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S. No.	Botanical name	Family	Common name	Habit	Life Form
260	<i>Kalanchoe pinnata</i> (Lam.) Pers.	Crassulaceae	Air Plant, Leaf of Life, Amar Poi	Herb	Ch
261	<i>Kigelia africana</i> (Lam.) Benth.	Bignoniaceae	Sausage Tree, Balam Khira	Tree	Ph
262	<i>Koelreuteria bipinnata</i> Franch.	Sapindaceae	Chinese Golden Rain Tree	Tree	Ph
263	<i>Koelreuteria paniculata</i> Laxm.	Sapindaceae	Golden Rain Tree, Varnish Tree	Tree	Ph
264	<i>Kroenleinia grusonii</i> (Hildm.) Lodé	Cactaceae	-	Shrub	Ch
265	<i>Lablab purpureus</i> (L.) Sweet	Fabaceae	Lablab Bean, Hyacinth Bean, Sem	Climber	L
266	<i>Lactuca sativa</i> L.	Asteraceae	Lettuce, Salad	Herb	Th
267	<i>Lagerstroemia indica</i> L.	Lythraceae	Common Crape Myrtle, Sawani	Shrub	Ph
268	<i>Lagerstroemia speciosa</i> (L.) Pers.	Lythraceae	Pride of India, Queen Crape Myrtle, Jarul	Tree	Ph
269	<i>Lagerstroemia tomentosa</i> C.Presl	Lythraceae	White Crape Myrtle, Leza	Tree	Ph
270	<i>Lantana camara</i> L.	Verbenaceae	Common Lantana, Wild Sage, Raimuniya	Shrub	Ch
271	<i>Lathyrus odoratus</i> L.	Fabaceae	Sweet Pea	Herb	Th
272	<i>Lathyrus oleraceus</i> Lam.	Fabaceae	Pea, Matar	Herb	Th
273	<i>Lathyrus sativus</i> L.	Fabaceae	Grass Pea, Khesari, Latari	Herb	Th
274	<i>Rosmarinus officinalis</i> L.	Lamiaceae	Rosemary	Shrub	Ch
275	<i>Lawsonia inermis</i> L.	Lythraceae	Henna, Mehendi	Shrub	Ch
276	<i>Lepidium didymum</i> L.	Brassicaceae	Lesser Swinecress, Wart Cress, Jangli Hala	Herb	Th
277	<i>Leucaena leucocephala</i> (Lam.) de Wit	Fabaceae	Wild Tamarind, Safed Babool	Tree	Ph
278	<i>Leucophyllum frutescens</i> (Berland.) I.M.Johnst.	Scrophulariaceae	Texas Barometer-bush, Silver-leaf Purple Sage	Shrub	Ch
279	<i>Leucostele atacamensis</i> (Phil.) Schlumpb.	Cactaceae	-	Shrub	Ch
280	<i>Linaria maroccana</i> Hook.f.	Plantaginaceae	Moroccan Toadflax, Baby Snapdragon	Herb	Th
281	<i>Linum grandiflorum</i> Desf.	Linaceae	Scarlet Flax, Flowering Flax	Herb	Th
282	<i>Litchi chinensis</i> Sonn.	Sapindaceae	Leechee, Litchi, Lichi	Tree	Ph
283	<i>Litsea glutinosa</i> (Lour.) C.B.Rob.	Lauraceae	Indian Laurel, Meda, Chandna	Tree	Ph
284	<i>Lobularia maritima</i> (L.) Desv.	Brassicaceae	Sweet Alyssum	Herb	Th
285	<i>Lophocereus schottii</i> (Engelm.) Britton & Rose	Cactaceae	-	Shrub	Ch
286	<i>Lophophora williamsii</i> (Lem.) J.M.Coult.	Cactaceae	-	Shrub	Ch
287	<i>Luffa cylindrica</i> (L.) M.Roem.	Cucurbitaceae	Sponge Gourd, Ghia Torai	Climber	L
288	<i>Lysimachia arvensis</i> var. <i>caerulea</i> (L.) Turland & Bergmeier	Primulaceae	Blue Pimpernel, Neel, Dharti Dhak	Herb	Th
289	<i>Madhuca longifolia</i> var. <i>latifolia</i> (Roxb.) A.Chev.	Sapotaceae	Indian Butter Tree, Honey Tree, Mahua	Tree	Ph
290	<i>Madhuca longifolia</i> (J.Koenig ex L.) J.F.Macbr.	Sapotaceae	South Indian Mahua, Mahua	Tree	Ph
291	<i>Maerua oblongifolia</i> (Forssk.) A.Rich.	Capparaceae	Desert Caper, Hemkand	Shrub	Ch
292	<i>Magnolia champaca</i> (L.) Baill. ex Pierre	Magnoliaceae	Golden Champa, Champa, Son Champa	Tree	Ph
293	<i>Magnolia grandiflora</i> L.	Magnoliaceae	Southern Magnolia, Bull Bay, Him Champa	Tree	Ph
294	<i>Malus domestica</i> (Suckow) Borkh.	Rosaceae	Apple, Seb	Tree	Ph
295	<i>Malva parviflora</i> L.	Malvaceae	Cheeseweed, Egyptian Mallow, Panirak	Herb	Th
296	<i>Malvastrum coromandelianum</i> (L.) Garcke	Malvaceae	False Mallow, Bariara, Kharenti	Herb	Th
297	<i>Malvaviscus arboreus</i> Dill. ex Cav.	Malvaceae	Sleeping Hibiscus, Turk's Cap	Shrub	Ch

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S. No.	Botanical name	Family	Common name	Habit	Life Form
298	<i>Mammillaria baumii</i> Boed.	Cactaceae	-	Shrub	Ch
299	<i>Mammillaria elongata</i> DC.	Cactaceae	-	Shrub	Ch
300	<i>Mammillaria longimamma</i> DC.	Cactaceae	-	Shrub	Ch
301	<i>Mammillaria rhodantha</i> Link & Otto	Cactaceae	-	Shrub	Ch
302	<i>Mangifera indica</i> L.	Anacardiaceae	Mango, Aam	Tree	Ph
303	<i>Manihot esculenta</i> Crantz	Euphorbiaceae	Tapioca, Para Arrowroot, Cassava	Shrub	G
304	<i>Manilkara hexandra</i> (Roxb.) Dubard	Sapotaceae	Ceylon Iron Wood, Milk Tree, Khirni	Tree	Ph
305	<i>Manilkara zapota</i> (L.) P.Royen	Sapotaceae	Sapodilla, Noseberry, Chikoo	Tree	Ph
306	<i>Mansoa alliacea</i> (Lam.) A.H.Gentry	Bignoniaceae	Garlic Vine, Lahsun Bel	Climber	L
307	<i>Matricaria chamomilla</i> L.	Asteraceae	Chamomile, Chamomilla	Herb	Th
308	<i>Matthiola incana</i> (L.) W.T.Aiton	Brassicaceae	Common Stock	Herb	Th
309	<i>Matucana paucicostata</i> F.Ritter	Cactaceae	-	Shrub	Ch
310	<i>Mazus pumilus</i> (Burm.f.) Steenis	Mazaceae	Japanese Mazus	Herb	Th
311	<i>Medicago polymorpha</i> L.	Fabaceae	Bur Clover, Chandansi	Herb	Th
312	<i>Melaleuca bracteata</i> F.Muell.	Myrtaceae	Golden Bottle Brush, River Tea Tree	Tree	Ph
313	<i>Melaleuca viminalis</i> (Sol. ex Gaertn.) Byrnes	Myrtaceae	Weeping Bottle Brush, Cheel	Tree	Ph
314	<i>Melia azedarach</i> L.	Meliaceae	Chinaberry Tree, Bakain, Mahanimb	Tree	Ph
315	<i>Melilotus indicus</i> (L.) All.	Fabaceae	Indian Sweet Clover, Ban Methi	Herb	Th
316	<i>Melocactus levitestatus</i> Buining & Brederoo	Cactaceae	-	Shrub	Ch
317	<i>Melochia corchorifolia</i> L.	Malvaceae	Chocolate Weed, Redweed, Chitrabeej	Herb	Th
318	<i>Mentha × piperita</i> L.	Lamiaceae	Pepper Mint, Vilayati Pudina	Herb	H
319	<i>Mentha aquatica</i> L.	Lamiaceae	Water Mint	Herb	H
320	<i>Mentha arvensis</i> L.	Lamiaceae	Field Mint, Wild Mint, Ban Pudina	Herb	H
321	<i>Mentha spicata</i> L.	Lamiaceae	Garden Mint, Pahari Pudina	Herb	H
322	<i>Milium velutinum</i> (Dunal) Hook.f. & Thomson	Annonaceae	Velvety Milium, Chopar Chilla, Domsal	Tree	Ph
323	<i>Millettia peguensis</i> Ali	Fabaceae	Moulmein Rosewood	Tree	Ph
324	<i>Millingtonia hortensis</i> L.f.	Bignoniaceae	Indian Cork Tree, Tree Jasmine, Neem Chameli	Tree	Ph
325	<i>Mimosa pudica</i> L.	Fabaceae	Touch-me-not, Chui-mui, Lajwanti	Undershrub	Ch
326	<i>Mimusops elengi</i> L.	Sapotaceae	Spanish Cherry, Mauisari, Bakul	Tree	Ph
327	<i>Mirabilis jalapa</i> L.	Nyctaginaceae	Four O'clock, Gul Abbas	Herb	Th
328	<i>Mitragyna parvifolia</i> (Roxb.) Korth.	Rubiaceae	Kaim, Kadamb, Bhumi Kadamb	Tree	Ph
329	<i>Momordica charantia</i> L.	Cucurbitaceae	Bitter Gourd, Karela	Climber	L
330	<i>Monoon longifolium</i> (Sonn.) B.Xue & R.M.K.Saunders	Annonaceae	False Ashok, Ashok	Tree	Ph
331	<i>Moringa oleifera</i> Lam.	Moringaceae	Drumstick Tree, Sahjan	Tree	Ph
332	<i>Morus alba</i> L.	Moraceae	Silkworm Mulberry, Tutri, Toot	Tree	Ph
333	<i>Morus macroura</i> Miq.	Moraceae	Himalayan Mulberry, Shahtoot	Tree	Ph
334	<i>Murraya exotica</i> L.	Rutaceae	Mock Orange, Badi Kamini	Tree	Ph
335	<i>Murraya koenigii</i> (L.) Spreng.	Rutaceae	Curry Leaf, Kadhi Patta, Meetha Neem	Shrub	Ch
336	<i>Murraya paniculata</i> (L.) Jack	Rutaceae	Orange Jasmine, Kamini	Shrub	Ch
337	<i>Naringi crenulata</i> (Roxb.) Nicolson	Rutaceae	Toothed-Leaf Limonia, Beli	Tree	Ph

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Table 2. Vascular Plants of the Rashtrapati Bhavan Estate, New Delhi, India

S. No.	Botanical name	Family	Common name	Habit	Life Form
338	<i>Nemesia strumosa</i> Benth.	Scrophulariaceae	Pouch Nemesia, Capejewels	Herb	Th
339	<i>Neolamarckia cadamba</i> (Roxb.) Bossler	Rubiaceae	Burflower Tree, Kadam, Kadamb	Tree	Ph
340	<i>Nerium oleander</i> L.	Apocynaceae	Oleander, Kaner	Shrub	Ph
341	<i>Nicotiana plumbaginifolia</i> Viv.	Solanaceae	Tex Mex Tobacco, Ban Tamaku	Herb	Th
342	<i>Nyctanthes arbor-tristis</i> L.	Oleaceae	Coral Jasmine, Har Singar, Parijat	Tree	Ph
343	<i>Nymphaea nouchali</i> Burm.f.	Nymphaeaceae	Blue Water Lily, Neelkamal	Aquatic Herb	G
344	<i>Ocimum basilicum</i> L.	Lamiaceae	Sweet Basil, Ram Tulsi, Babui Tulsi	Herb	Ch
345	<i>Ocimum gratissimum</i> L.	Lamiaceae	Wild Basil, Clove Basil, Ban Tulsi	Undershrub	Ch
346	<i>Ocimum kilimandscharicum</i> Gürke	Lamiaceae	Camphor Basil, Kilimanjaro Basil, Kapur Tulsi	Herb	Ch
347	<i>Ocimum tenuiflorum</i> L.	Lamiaceae	Holy Basil, Tulsi	Undershrub	Ch
348	<i>Oenothera biennis</i> L.	Onagraceae	Common Evening Primrose	Herb	Th
349	<i>Oldenlandia corymbosa</i> L.	Rubiaceae	Diamond Flower, Daman Pappar, Parpatah	Herb	Th
350	<i>Olea europaea</i> L.	Oleaceae	European Olive, Olive, Zaitun	Tree	Ph
351	<i>Oroxylum indicum</i> (L.) Kurz	Bignoniaceae	Broken Bones Tree, Shyonak	Tree	Ph
352	<i>Ouret lanata</i> (L.) Kuntze	Amaranthaceae	Mountain Knot Grass, Gorakhganja	Herb	Ch
353	<i>Oxalis corniculata</i> L.	Oxalidaceae	Creeping Wood Sorrel, Tinpatiya	Herb	H
354	<i>Oxalis debilis</i> Kunth	Oxalidaceae	Pink Wood Sorrel	Herb	Th
355	<i>Oxalis pes-caprae</i> L.	Oxalidaceae	Bermuda Buttercup, Cape Sorrel	Herb	Th
356	<i>Oxystelma esculentum</i> (L.f.) Sm.	Apocynaceae	Rosy Milkweed Vine, Dudhiya Lata	Climber	L
357	<i>Paederia foetida</i> L.	Rubiaceae	Skunk Vine, Gandhali, Gandha Prasarini	Climber	L
358	<i>Papaver rhoeas</i> L.	Papaveraceae	Common Poppy, Field Poppy, Lalpost	Herb	Th
359	<i>Papaver somniferum</i> L.	Papaveraceae	Opium Poppy, Afim, Posta, Khash-khash	Herb	Th
360	<i>Parodia scopa</i> (Spreng.) N.P.Taylor	Cactaceae	-	Shrub	Ch
361	<i>Parthenium hysterophorus</i> L.	Asteraceae	Carrot Grass, Congress Grass, Gajar Ghas	Herb	Th
362	<i>Passiflora</i> sp.	Passifloraceae	Lady Margaret Passion Flower	Climber	L
363	<i>Paulownia tomentosa</i> (Thunb.) Steud.	Paulowniaceae	Empress Tree, Princess Tree, Foxglove Tree	Tree	Ph
364	<i>Pelargonium graveolens</i> L'Hér.	Geraniaceae	Rose Geranium, Rose-Scented Geranium	Undershrub	Th
365	<i>Peltophorum pterocarpum</i> (DC.) Backer ex K.Heyne	Fabaceae	Copperpod, Peela Gulmohar	Tree	Ph
366	<i>Pergularia daemia</i> (Forssk.) Chiov.	Apocynaceae	Stinking Swallow Wort, Menda Singi, Galaria Ki Bel	Climber	L
367	<i>Pericallis × hybrida</i> (Bosse) B.Nord.	Asteraceae	Cineraria, Florist's Cineraria	Herb	Th
368	<i>Petrea volubilis</i> L.	Verbenaceae	Purple Wreath, Sandpaper Vine, Nilmani Lata	Liana	L
369	<i>Petroselinum crispum</i> (Mill.) Fuss	Apiaceae	Parsley	Herb	Th
370	<i>Petunia × atkinsiana</i> (Sweet) D.Don ex W.H.Baxter	Solanaceae	-	Herb	Th
371	<i>Phlox drummondii</i> Hook.	Polemoniaceae	Annual Phlox, Drummond's Phlox	Herb	Th
372	<i>Phyla nodiflora</i> (L.) Greene	Verbenaceae	Frog Fruit, Bukkan, Jalbuti	Herb	Th
373	<i>Phyllanthus amarus</i> Schumach. & Thonn.	Phyllanthaceae	Gale of Wind, Stone Breaker, Bhui Aonla	Herb	Th
374	<i>Phyllanthus emblica</i> L.	Phyllanthaceae	Indian Gooseberry, Amla	Tree	Ph
375	<i>Phyllanthus fraternus</i> G.L.Webster	Phyllanthaceae	Gulf Leaf-Flower, Bhuinavalah, Nunki	Herb	Th

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S. No.	Botanical name	Family	Common name	Habit	Life Form
376	<i>Phyllanthus reticulatus</i> Poir.	Phyllanthaceae	Black-berried Featherfoil, Kale Madhu ka	Shrub	Ch
377	<i>Pilosocereus leucocephalus</i> (Poselg.) Byles & G.D.Rowley	Cactaceae	-	Shrub	Ch
378	<i>Pimenta dioica</i> (L.) Merr.	Myrtaceae	Allspice, Myrtle Pepper, Pimento	Tree	Ph
379	<i>Piper longum</i> L.	Piperaceae	Indian Long Pepper, Pipli, Peepar	Climber	L
380	<i>Pistacia chinensis</i> subsp. <i>integerrima</i> (J.L.Stewart) Rech.f.	Anacardiaceae	Kakkar, Kakar Singhi, Kakra	Tree	Ph
381	<i>Pithecellobium dulce</i> (Roxb.) Benth.	Fabaceae	Sweet Tamarind, Jangal Jalebi	Tree	Ph
382	<i>Plantago ovata</i> Forssk.	Plantaginaceae	Blond Plantain, Psyllium, Isabgol	Herb	Th
383	<i>Platanus orientalis</i> L.	Platanaceae	Oriental Plane, Chinar	Tree	Ph
384	<i>Pleurolobus gangeticus</i> (L.) J.St.-Hil. ex H. Ohashi & K. Ohashi	Fabaceae	Sal Leaved Desmodium, Shalparni	Undershrub	Ch
385	<i>Pluchea lanceolata</i> (DC.) C.B. Clarke	Asteraceae	Rasna, Phaar	Herb	Th
386	<i>Plumbago zeylanica</i> L.	Plumbaginaceae	White leadwort, Chitrak, Catawar	Undershrub	Ch
387	<i>Plumeria obtusa</i> L.	Apocynaceae	White Frangipani, Gulchin	Tree	Ph
388	<i>Plumeria rubra</i> L.	Apocynaceae	Red Frangipani, Lal Gulchin	Tree	Ph
389	<i>Pongamia pinnata</i> (L.) Pierre	Fabaceae	Pongam Tree, Karanj	Tree	Ph
390	<i>Populus deltoides</i> W.Bartram ex Marshall	Salicaceae	Eastern Cottonwood, Poplar	Tree	Ph
391	<i>Portulaca grandiflora</i> Hook.	Portulacaceae	Moss Rose, Nonia, Lunia	Herb	Th
392	<i>Portulaca quadrifida</i> L.	Portulacaceae	Wild Purslane, Chhota Lunia	Herb	Th
393	<i>Portulacaria afra</i> Jacq.	Didiereaceae	Elephant Bush, Dwarf Jade Plant	Shrub	Ch
394	<i>Primula vulgaris</i> Huds.	Primulaceae	Common Primrose	Herb	Th
395	<i>Prosopis cineraria</i> (L.) Druce	Fabaceae	Khejri Tree, Shami, Khejri	Tree	Ph
396	<i>Prosopis juliflora</i> (Sw.) DC.	Fabaceae	Algaroba, Mesquite, Vilayati Babul	Tree	Ph
397	<i>Prunus domestica</i> L.	Rosaceae	Plum, Alubukhara, Alucha	Tree	Ph
398	<i>Prunus persica</i> (L.) Batsch	Rosaceae	Peach, Adoo	Tree	Ph
399	<i>Psidium guajava</i> L.	Myrtaceae	Guava, Amrood	Tree	Ph
400	<i>Pterospermum acerifolium</i> (L.) Willd.	Malvaceae	Maple-leaved Bayur Tree, Kanak Champa, Muchkund	Tree	Ph
401	<i>Pterygota alata</i> (Roxb.) R.Br.	Malvaceae	Buddha's Coconut Tree	Tree	Ph
402	<i>Punica granatum</i> L.	Lythraceae	Pomegranate, Anar	Tree	Ph
403	<i>Pupalia lappacea</i> (L.) Juss.	Amaranthaceae	Forest Burr, Bhurat	Herb	Th
404	<i>Putranjiva roxburghii</i> Wall.	Putranjivaceae	Putranjiva, Lucky Bean Tree, Putrajeev	Tree	Ph
405	<i>Pyrostegia venusta</i> (Ker Gawl.) Miers	Bignoniaceae	Flaming Trumpet, Golden Shower Trumpet	Climber	L
406	<i>Pyrus communis</i> L.	Rosaceae	Pear, Nashpati	Tree	Ph
407	<i>Ranunculus sceleratus</i> L.	Ranunculaceae	Cursed Buttercup, Jaldhaniya	Herb	Th
408	<i>Raphanus raphanistrum</i> subsp. <i>sativus</i> (L.) Domin	Brassicaceae	Radish, Muli	Herb	G
409	<i>Rauvolfia serpentina</i> (L.) Benth. ex Kurz	Apocynaceae	Indian Snakeroot, Sarpagandha	Shrub	Ch
410	<i>Rauvolfia tetraphylla</i> L.	Apocynaceae	Wild Snake Root, Bada Chandrika	Shrub	Ch
411	<i>Rebutia arenacea</i> Cárdenas	Cactaceae	-	Shrub	Ch
412	<i>Rebutia heliosa</i> Rausch	Cactaceae	-	Shrub	Ch
413	<i>Rebutia mentosa</i> (F.Ritter) Donald	Cactaceae	-	Shrub	Ch

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S. No.	Botanical name	Family	Common name	Habit	Life Form
414	<i>Rebutia pygmaea</i> (R.E.Fr.) Britton & Rose	Cactaceae	-	Shrub	Ch
415	<i>Ricinus communis</i> L.	Euphorbiaceae	Castor Bean, Arandi	Tree	Ph
416	<i>Rondeletia odorata</i> Jacq.	Rubiaceae	Cleveland Sunrise, Panama Rose	Shrub	Ch
417	<i>Rosa chinensis</i> f. <i>viridiflora</i> (Lavall,e) C.K.Schneid.	Rosaceae	Green Rose, Hara Gulab	Shrub	Ch
418	<i>Rosa indica</i> L.	Rosaceae	Indian Fragrant Rose, Desi Gulab	Shrub	Ch
419	<i>Ruellia patula</i> Jacq.	Acanthaceae	Spreading Ruellia	Undershrub	Th
420	<i>Ruellia prostrata</i> Poir.	Acanthaceae	Bell Weed, Prostrate Wild Petunia	Herb	Th
421	<i>Ruellia simplex</i> C.Wright	Acanthaceae	Desert Petunia, Mexican Petunia	Herb	Th
422	<i>Rumex dentatus</i> L.	Polygonaceae	Toothed Dock, Jangli Palak	Herb	Th
423	<i>Salvadora persica</i> L.	Salvadoraceae	Toothbrush Tree, Mustard Tree, Meswak, Pilu	Tree	Ph
424	<i>Salvia splendens</i> Sellow ex Nees	Lamiaceae	Scarlet Sage	Herb	Th
425	<i>Santalum album</i> L.	Santalaceae	Indian Sandalwood, Chandan, Safed Chandan	Tree	Ph
426	<i>Sapindus mukorossi</i> Gaertn.	Sapindaceae	North Indian Soapnut, Indian Soapberry, Reetha	Tree	Ph
427	<i>Saraca asoca</i> (Roxb.) W.J.de Wilde	Fabaceae	Sorrowless Tree, Ashok, Sita Ashok	Tree	Ph
428	<i>Schleichera oleosa</i> (Lour.) Oken	Sapindaceae	Ceylon Oak, Lac Tree, Kusum	Tree	Ph
429	<i>Selenicereus grandiflorus</i> subsp. <i>donkelaarii</i> (Salm-Dyck) Ralf Bauer	Cactaceae	-	Shrub	Ch
430	<i>Senegalia catechu</i> (L.f.) P.J.H.Hurter & Mabb.	Fabaceae	Black Catechu, Cutch Tree, Khair	Tree	Ph
431	<i>Senegalia ferruginea</i> (DC.) Pedley	Fabaceae	Rusty Acacia, Kaigar, Safed Khair, Son Khair	Tree	Ph
432	<i>Senegalia modesta</i> (Wall.) P.J.H.Hurter	Fabaceae	Amritsar Gum, Phulai	Tree	Ph
433	<i>Senegalia rugata</i> (Lam.) Britton & Rose	Fabaceae	Soap-pod, Shikakai	Liana	L
434	<i>Senegalia senegal</i> (L.) Britton	Fabaceae	Gum Senegal Tree, Kumttha, Kumat	Tree	Ph
435	<i>Senna alexandrina</i> Mill.	Fabaceae	Indian Senna, Hind Senna	Shrub	Ch
436	<i>Senna occidentalis</i> (L.) Link	Fabaceae	Coffee Senna, Kasunda	Undershrub	Th
437	<i>Senna pallida</i> (Vahl) H.S.Irwin & Barneby	Fabaceae	Twin Flowered Cassia	Tree	Ph
438	<i>Senna siamea</i> (Lam.) H.S.Irwin & Barneby	Fabaceae	Siamese Senna, Kassod	Tree	Ph
439	<i>Sida cordata</i> (Burm.f.) Borss.Waalk.	Malvaceae	Flannel Weed, Bhumi-Bariara, Rajbala	Herb	Th
440	<i>Sideroxylon grandiflorum</i> A.DC.	Sapotaceae	Dodo Tree, Tambalacoque	Tree	Ph
441	<i>Silybum marianum</i> (L.) Gaertn.	Asteraceae	Milk Thistle, Mary Thistle	Herb	Th
442	<i>Simarouba glauca</i> DC.	Simaroubaceae	Paradise Tree, Lakshmi Taru	Tree	Ph
443	<i>Sisymbrium irio</i> L.	Brassicaceae	London Rocket, Asalio, Khubkhala	Herb	Th
444	<i>Solanum lycopersicum</i> L.	Solanaceae	Tomato, Tamatar	Herb	Th
445	<i>Solanum melongena</i> L.	Solanaceae	Brinjal, Egg plant, Baingan	Undershrub	Th
446	<i>Solanum nigrum</i> L.	Solanaceae	Black Nightshade, Makoy, Makoh	Herb	Th
447	<i>Solanum torvum</i> Sw.	Solanaceae	Turkey Berry, Bhankatiya, Bhurat	Shrub	Ch
448	<i>Solanum tuberosum</i> L.	Solanaceae	Potato, Alu	Herb	G
449	<i>Solanum villosum</i> Mill.	Solanaceae	Hairy Nightshade, Red Nightshade, Laal Makoy	Herb	Th
450	<i>Sonchus oleraceus</i> L.	Asteraceae	Hare's Lettuce, Peeli Dudhi	Herb	Th

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S. No.	Botanical name	Family	Common name	Habit	Life Form
451	<i>Spathodea campanulata</i> P.Beauv.	Bignoniaceae	African Tulip Tree, Rugtoora	Tree	Ph
452	<i>Spergularia flaccida</i> (Madden) I.M.Turner	Caryophyllaceae	Flaccid Leaf Spergularia	Herb	Th
453	<i>Sphagneticola trilobata</i> (L.) Pruski	Asteraceae	Yellow Dots, Wedelia	Herb	H
454	<i>Spinacia oleracea</i> L.	Amaranthaceae	Spinach, Palak	Herb	Th
455	<i>Stellaria aquatica</i> (L.) Scop.	Caryophyllaceae	Giant Chickweed	Herb	Th
456	<i>Stellaria media</i> (L.) Vill.	Caryophyllaceae	Chickweed, Buchbucha	Herb	Th
457	<i>Sterculia foetida</i> L.	Malvaceae	Java Olive, Poon Tree, Jangli Badam	Tree	Ph
458	<i>Stevia rebaudiana</i> (Bertoni) Bertoni	Asteraceae	Stevia, Sweet Honey Leaf	Herb	Th
459	<i>Strychnos nux-vomica</i> L.	Loganiaceae	Nux Vomica, Poison Nut, Kuchala	Tree	Ph
460	<i>Swietenia mahagoni</i> (L.) Jacq.	Meliaceae	Cuban Mahogany, West Indian Mahogany, Mahogany	Tree	Ph
461	<i>Syzygium cumini</i> (L.) Skeels	Myrtaceae	Java Plum, Black Plum, Jamun	Tree	Ph
462	<i>Syzygium jambos</i> (L.) Alston	Myrtaceae	Rose Apple, Malabar Plum, Gulab Jamun	Tree	Ph
463	<i>Syzygium nervosum</i> A.Cunn. ex DC.	Myrtaceae	Rai Jamun, Paiman	Tree	Ph
464	<i>Tabebuia aurea</i> (Silva Manso) Benth. & Hook.f. ex S.Moore	Bignoniaceae	Caribbean Trumpet Tree, Yellow Tabebuia	Tree	Ph
465	<i>Tabernaemontana divaricata</i> (L.) R.Br. ex Roem. & Schult.	Apocynaceae	Crape Jasmine, Chandni	Shrub	Ph
466	<i>Tagetes erecta</i> L.	Asteraceae	Marigold, Genda	Herb	Th
467	<i>Tamarindus indica</i> L.	Fabaceae	Tamarind, Imli	Tree	Ph
468	<i>Tamarix aphylla</i> (L.) H.Karst.	Tamaricaceae	Athel Pine, Athel Tamarisk, Lal-jhar, Lal Jhau	Tree	Ph
469	<i>Tecoma castanifolia</i> (D.Don) Melch.	Bignoniaceae	Chestnutleaf Trumpetbush	Tree	Ph
470	<i>Tecoma stans</i> (L.) Juss. ex Kunth	Bignoniaceae	Yellow Bells, Yellow Trumpet, Piliya	Shrub	Ph
471	<i>Tecomella undulata</i> (Sm.) Seem.	Bignoniaceae	Honey Tree, Desert Teak, Roheda	Tree	Ph
472	<i>Tectona grandis</i> L.f.	Lamiaceae	Teak, Sagon	Tree	Ph
473	<i>Telosma pallida</i> (Roxb.) Craib	Apocynaceae	Telosma Vine, Surkillia	Climber	L
474	<i>Tephrosia purpurea</i> (L.) Pers.	Fabaceae	Wild Indigo, Sharpunkha	Herb	Th
475	<i>Terminalia arjuna</i> (Roxb. ex DC.) Wight & Arn.	Combretaceae	Arjun Tree, Arjun	Tree	Ph
476	<i>Terminalia bellirica</i> (Gaertn.) Roxb.	Combretaceae	Belliric Myrobalan, Beach almond, Baheda	Tree	Ph
477	<i>Thespesia populnea</i> (L.) Sol. ex Corrêa	Malvaceae	Indian Tulip Tree, Portia Tree, Paras Pipal	Tree	Ph
478	<i>Thunbergia grandiflora</i> Roxb.	Acanthaceae	Bengal Trumpet Vine, Blue Sky Flower, Neel Lata	Climber	L
479	<i>Thymophylla tenuiloba</i> (DC.) Small	Asteraceae	Dahlberg Daisy, Golden Fleece	Herb	Th
480	<i>Thymus serpyllum</i> L.	Lamiaceae	Thyme	Herb	Th
481	<i>Tinospora cordifolia</i> (Willd.) Hook.f. & Thomson	Menispermaceae	Heart-leaved Moonseed, Giloy, Guduchi	Climber	L
482	<i>Toona hexandra</i> (Wall.) M.Roem.	Meliaceae	Indian Mahogany, Red Cedar, Toon	Tree	Ph
483	<i>Trachelospermum jasminoides</i> (Lindl.) Lem.	Apocynaceae	Confederate Jasmine, Star Jasmine	Climber	L
484	<i>Trianthema portulacastrum</i> L.	Aizoaceae	Giant Pigweed, Horse-Purslane, Sabuni, Santhi	Herb	Th
485	<i>Tribulus terrestris</i> L.	Zygophyllaceae	Puncture Vine, Small Caltrop, Gokhuru	Herb	Th

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S. No.	Botanical name	Family	Common name	Habit	Life Form
486	<i>Trichosanthes cucumerina</i> var. <i>anguina</i> (L.) Haines	Cucurbitaceae	Snake Gourd, Chachinda, Chichonda	Climber	L
487	<i>Tridax procumbens</i> L.	Asteraceae	Tridax Daisy, Coat Buttons, Kanphuli	Herb	Th
488	<i>Trigonella balansae</i> Boiss. & Reut.	Fabaceae	Cultivated Fenugreek, Kasuri Methi	Herb	Th
489	<i>Trigonella foenum-graecum</i> L.	Fabaceae	Fenugreek, Methi	Herb	Th
490	<i>Tropaeolum majus</i> L.	Tropaeolaceae	Garden Nasturtium, Indian Cress	Herb	Th
491	<i>Tylophora indica</i> (Burm.f.) Merr.	Apocynaceae	Indian Ipecac, Antamul, Latakshiri	Climber	L
492	<i>Vachellia leucophloea</i> (Roxb.) Maslin, Seigler & Ebinger	Fabaceae	White Bark Acacia, Safed Babul	Tree	Ph
493	<i>Vachellia nilotica</i> subsp. <i>indica</i> (Benth.) Kyal. & Boatwr.	Fabaceae	Gum Arabic, Babool, Kikar	Tree	Ph
494	<i>Vallis solanacea</i> (Roth) Kuntze	Apocynaceae	Bread Flower, Dudhi Ki Bel	Climber	L
495	<i>Veronica agrestis</i> L.	Plantaginaceae	Green Field-Speedwell	Herb	Th
496	<i>Veronica anagallis-aquatica</i> L.	Plantaginaceae	Water Speedwell, Sada	Herb	Th
497	<i>Vicia sativa</i> L.	Fabaceae	Common Vetch, Akra, Matari	Herb	Th
498	<i>Vigna unguiculata</i> (L.) Walp.	Fabaceae	Cowpea, Lobiya	Climber	L
499	<i>Vincetoxicum spirale</i> (Forssk.) D.Z.Li	Apocynaceae	-	Climber	L
500	<i>Viola tricolor</i> L.	Violaceae	Wild Pansy, Heartsease	Herb	Th
501	<i>Vitex negundo</i> L.	Lamiaceae	Chaste Tree, Nirgundi	Shrub	Ch
502	<i>Vitis vinifera</i> L.	Vitaceae	Grapes, Angur	Climber	L
503	<i>Volkameria inermis</i> L.	Lamiaceae	Glory Bower, Binjoan, Sankuppi	Shrub	Ch
504	<i>Wattakaka volubilis</i> (L.f.) Stapf	Apocynaceae	Green Milkweed Climber, Nakchhikni	Climber	L
505	<i>Withania somnifera</i> (L.) Dunal	Solanaceae	Winter Cherry, Indian Ginseng, Ashwagandha	Shrub	Ch
506	<i>Wrightia tinctoria</i> (Roxb.) R.Br.	Apocynaceae	Sweet Indrajao, Kapar, Dudhi, Sveta Kutaja	Tree	Ph
507	<i>Xerochrysum bracteatum</i> (Vent.) Tzvelev	Asteraceae	Paper Daisy, Strawflower	Herb	Th
508	<i>Youngia japonica</i> (L.) DC.	Asteraceae	Oriental Hawkweed	Herb	Th
509	<i>Ziziphus mauritiana</i> Lam.	Rhamnaceae	Indian Jujube, Indian Plum, Ber	Tree	Ph
510	<i>Ziziphus xylopyrus</i> (Retz.) Willd.	Rhamnaceae	Kath Ber, Bada Ber	Tree	Ph
Angiosperms (Monocotyledons)					
1	<i>Acorus calamus</i> L.	Acoraceae	Sweet Flag, Bach, Vach, Ghorvach	Herb	G
2	<i>Agave angustifolia</i> Haw.	Asparagaceae	Caribbean Agave, Narrow-leaved Century Plant	Shrub	Ph
3	<i>Agave decipiens</i> Baker	Asparagaceae	False Sisal, Florida Agave	Shrub	Ph
4	<i>Agave demeesteriana</i> Jacobi	Asparagaceae	Smooth Agave, Smooth Century Plant	Shrub	Ph
5	<i>Allium ampeloprasum</i> L.	Amaryllidaceae	Elephant Garlic, Wild Leek, Levant Garlic	Herb	G
6	<i>Allium cepa</i> L.	Amaryllidaceae	Onion, Pyaz, Piyaz	Herb	G
7	<i>Allium sativum</i> L.	Amaryllidaceae	Garlic, Lahsun, Lahsan, Rason	Herb	G
8	<i>Aloe vera</i> (L.) Burm.f.	Asphodelaceae	Indian Aloe, Gheekunwar, Gwarpatha, Ghritkumari	Herb	Ch
9	<i>Alpinia calcarata</i> Roscoe	Zingiberaceae	Cardamon Ginger, Kulanjan	Herb	G
10	<i>Amorphophallus paeoniifolius</i> (Dennst.) Nicolson	Araceae	Elephant Foot Yam, Zaminkand, Oal, Suran	Herb	G
11	<i>Asparagus aethiopicus</i> L.	Asparagaceae	Ground Asparagus, Basket Asparagus	Undershrub	Th
12	<i>Asparagus densiflorus</i> (Kunth) Jessop	Asparagaceae	Foxtail Asparagus, Sprenger's Asparagus, Plume Asparagus	Undershrub	G

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Table 2. Vascular Plants of the Rashtrapati Bhavan Estate, New Delhi, India

S. No.	Botanical name	Family	Common name	Habit	Life Form
13	<i>Asparagus racemosus</i> Willd.	Asparagaceae	Wild Asparagus, Satavar, Shatavari, Shatamuli	Climber	G
14	<i>Aspidistra elatior</i> Blume	Asparagaceae	Bar-room Plant, Cast-iron Plant	Herb	Th
15	<i>Bambusa oldhamii</i> Munro	Poaceae	Giant Timber Bamboo, Oldham's Bamboo	Woody Grass	Ph
16	<i>Bambusa vulgaris</i> cv wamin McClure	Poaceae	Buddha Bamboo, Giant Buddha's Belly	Woody Grass	Ph
17	<i>Bambusa vulgaris</i> Schrad. ex J.C.Wendl.	Poaceae	Golden Bamboo, Striped Bamboo, Bans	Woody Grass	Ph
18	<i>Beaucarnea recurvata</i> (K.Koch & Fintelm.) Lem.	Asparagaceae	Elephant's Foot, Ponytail Palm	Tree	Ph
19	<i>Bismarckia nobilis</i> Hildebrandt & H.Wendl.	Arecaceae	Bismarck Palm	Tree	Ph
20	<i>Canna × generalis</i> L.H.Bailey	Cannaceae	Canna Hybrid Plant, Common Garden Canna	Herb	Ch
21	<i>Canna flaccida</i> Salisb.	Cannaceae	Golden Canna, Bandanna of the Everglades	Herb	Ch
22	<i>Canna indica</i> L.	Cannaceae	Indian Shot, Wild Canna, Sarvajjaya	Herb	Ch
23	<i>Caryota urens</i> L.	Arecaceae	Fishtail Palm, Jaggery Palm	Tree	Ph
24	<i>Cenchrus americanus</i> (L.) Morrone	Poaceae	Pearl Millet, Bajra	Herb	Th
25	<i>Cenchrus biflorus</i> Roxb.	Poaceae	Indian Sandbur, Burgrass, Bhurat	Herb	Th
26	<i>Cenchrus orientalis</i> (Rich.) Morrone	Poaceae	Oriental Fountain Grass	Herb	Th
27	<i>Chamaedorea seifrizii</i> Burret	Arecaceae	Bamboo Palm, Reed Palm, Cane Palm	Shrub	Ch
28	<i>Chloris virgata</i> Sw.	Poaceae	Feather Finger Grass, Blue Grass	Herb	Th
29	<i>Chlorophytum borivilianum</i> Santapau & R.R.Fern.	Asparagaceae	Musli, Safed Musli, Sweta Musli, Dhavalmuli	Herb	G
30	<i>Chlorophytum comosum</i> (Thunb.) Jacques	Asparagaceae	Spider Plant, Ribbon Plant, Musli	Herb	G
31	<i>Chrysopogon zizanioides</i> (L.) Roberty	Poaceae	Vetiver, Khas, Khus-khus, Gandar, Jhaund	Herb	Ch
32	<i>Colocasia esculenta</i> (L.) Schott	Araceae	Taro, Elephant's Ear, Arabi, Ghuiyan	Herb	G
33	<i>Commelina benghalensis</i> L.	Commelinaceae	Bengal Dayflower, Kana, Kankawa	Herb	Th
34	<i>Cordylone fruticosa</i> (L.) A.Chev.	Asparagaceae	Hawaiian Ti Plant, Good Luck Plant, Ti Plant	Shrub	Ch
35	<i>Curcuma aromatica</i> Salisb.	Zingiberaceae	Wild Turmeric, Aromatic Turmeric, Jangli Haldi	Herb	G
36	<i>Curcuma longa</i> L.	Zingiberaceae	Turmeric, Haldi	Herb	G
37	<i>Cymbopogon citratus</i> (DC.) Stapf	Poaceae	Lemon Grass, Citronella	Herb	G
38	<i>Cymbopogon martini</i> (Roxb.) W.Watson	Poaceae	Palmarosa Grass, Rusha Grass, Gandhejghas, Makora	Herb	G
39	<i>Cynodon dactylon</i> (L.) Pers.	Poaceae	Bermuda Grass, Doob, Dobri	Herb	H
40	<i>Cyperus pangorei</i> Rottb.	Cyperaceae	Mat Sedge, Korai	Herb	G
41	<i>Cyperus rotundus</i> L.	Cyperaceae	Common Nut Sedge, Purple Nut Sedge, Motha	Herb	G
42	<i>Dactyloctenium aegyptium</i> (L.) Willd.	Poaceae	Crowfoot Grass, Four-finger Grass, Makra	Herb	H
43	<i>Dianella tasmanica</i> Hook.f.	Asphodelaceae	Blue Flax Lily, Tasman Flax lily, Variegated Flax Lily	Herb	Th
44	<i>Digitaria setigera</i> Roth	Poaceae	East Indian Crabgrass, Kiwai	Herb	H
45	<i>Dracaena fragrans</i> (L.) Ker Gawl.	Asparagaceae	Corn Palm, Fragrant Dracaena, Palmillo	Shrub	Ch
46	<i>Dracaena reflexa</i> Lam.	Asparagaceae	Song of India, Song of Jamaica, Pleomele	Shrub	Ch
47	<i>Dracaena reflexa</i> var. <i>angustifolia</i> Baker	Asparagaceae	Silhouette Plant, Rainbow Tree	Shrub	Ch

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Table 2. Vascular Plants of the Rashtrapati Bhavan Estate, New Delhi, India

S. No.	Botanical name	Family	Common name	Habit	Life Form
48	<i>Dracaena trifasciata</i> (Prain) Mabb.	Asparagaceae	Snake Plant, Mother-in-law's tongue, Saas ki Zaban	Herb	Ch
49	<i>Drimia indica</i> (Roxb.) Jessop	Asparagaceae	Indian Squill, Jangli Pyaz, Kolkand	Herb	G
50	<i>Dypsis lutescens</i> (H.Wendl.) Beentje & J.Dransf.	Arecaceae	Golden Cane Palm, Areca Palm, Butterfly Palm	Tree	Ph
51	<i>Echinochloa colonum</i> (L.) Link	Poaceae	Jungle Rice, Shama Millet, Jangli Jhangora	Herb	H
52	<i>Eleusine indica</i> (L.) Gaertn.	Poaceae	Indian Goosegrass, Malankuri, Balraja	Herb	H
53	<i>Epipremnum aureum</i> (Linden & André) G.S.Bunting	Araceae	Money Plant, Golden Pothos, Ivy Arum	Climber	L
54	<i>Epipremnum pinnatum</i> (L.) Engl.	Araceae	Centipede Tongavine, Dragon-tail Plant	Climber	L
55	<i>Eragrostis tenella</i> (L.) P.Beauv. ex Roem. & Schult.	Poaceae	Feather Lovegrass, Bharbhusi	Herb	H
56	<i>Freesia corymbosa</i> (Burm.f.) N.E.Br.	Iridaceae	Common Freesia	Herb	G
57	<i>Furcraea foetida</i> (L.) Haw.	Asparagaceae	Giant Cabuya, Mauritius-hemp	Shrub	Ch
58	<i>Furcraea selloa</i> K.Koch	Asparagaceae	False Agave, Maguey, Sword Lily, Wild Sisal	Shrub	Ch
59	<i>Gladiolus dalenii</i> Van Geel	Iridaceae	Gladiolus, Dragon's-head Lily, Natal Lily	Herb	G
60	<i>Gloriosa superba</i> L.	Colchicaceae	Glory Lily, Flame Lily, Kalihari	Climber	G
61	<i>Heliconia rostrata</i> Ruiz & Pav.	Heliconiaceae	Lobster Claw, Hanging Heliconia	Herb	G
62	<i>Hellenia speciosa</i> (J.Koenig) S.R.Dutta	Costaceae	Spiral Flag, Spiral Ginger, Kevuk, Keokand	Herb	G
63	<i>Hymenocallis caribaea</i> (L.) Herb.	Amaryllidaceae	Caribbean Spider Lily	Herb	G
64	<i>Iris × hollandica</i> H.R.Wehrh.	Iridaceae	Dutch Iris	Herb	G
65	<i>Kaempferia galanga</i> L.	Zingiberaceae	Aromatic Ginger, Lesser Galangal, Chandramula	Herb	G
66	<i>Lilium × asiaticum</i>	Liliaceae	Asiatic Hybrid Lily	Herb	G
67	<i>Lilium maculatum</i> Thunb.	Liliaceae	Lily, See-through Lily	Herb	G
68	<i>Livistona chinensis</i> (Jacq.) R.Br. ex Mart.	Arecaceae	Chinese Fan Palm, Fountain Palm	Tree	Ph
69	<i>Maranta arundinacea</i> L.	Marantaceae	West-Indian Arrowroot, Tikhor, Tikkor	Herb	G
70	<i>Monstera deliciosa</i> Liebm.	Araceae	Ceriman, Swiss Cheese Plant	Climber	L
71	<i>Musa × paradisiaca</i> L.	Musaceae	Banana, Kela, Kadali	Herb	G
72	<i>Ophiopogon jaburan</i> (Siebold) G.Lodd.	Asparagaceae	Lilyturf, Giant Striped Mondo Grass	Herb	G
73	<i>Ophiopogon japonicus</i> (Thunb.) Ker Gawl.	Asparagaceae	Dwarf Lilyturf, Mondo Grass	Herb	G
74	<i>Phalaris minor</i> Retz.	Poaceae	Dwarf Canary Grass, Lesser Canary Grass	Herb	Th
75	<i>Phoenix acaulis</i> Roxb.	Arecaceae	Dwarf Palm, Jangli Chhina	Shrub	Ch
76	<i>Phoenix roebelenii</i> O'Brien	Arecaceae	Dwarf Date Palm, Pygmy Date Palm	Shrub	Ch
77	<i>Phoenix sylvestris</i> (L.) Roxb.	Arecaceae	Indian Wild Date, Silver Date Palm, Khajur, Khajuri	Tree	Ph
78	<i>Phragmites karka</i> (Retz.) Trin. ex Steud.	Poaceae	Tall Reed, Narkul, Nal, Doka-ghas	Herb	Th
79	<i>Polianthes tuberosa</i> L.	Asparagaceae	Mexican Tuberosa, Tuberosa, Rajanigandha	Herb	G
80	<i>Polypogon monspeliensis</i> (L.) Desf.	Poaceae	Annual Beard Grass	Herb	Th
81	<i>Rhapis excelsa</i> (Thunb.) A.Henry	Arecaceae	Broadleaf Lady Palm	Shrub	Ph
82	<i>Roystonea regia</i> (Kunth) O.F.Cook	Arecaceae	Bottle Palm, Royal Palm	Tree	Ph
83	<i>Saccharum officinarum</i> L.	Poaceae	Sugarcane, Eekh, Ganna	Herb	Ch
84	<i>Sansevieria roxburghiana</i> Schult. & Schult.f.	Asparagaceae	Indian Bowstring Hemp, Bowstring Hemp, Marul	Herb	Ch

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Table 2. Vascular Plants of the Rashtrapati Bhavan Estate, New Delhi, India

S. No.	Botanical name	Family	Common name	Habit	Life Form
85	<i>Setaria flavid</i> (Retz.) Veldkamp	Poaceae	Yellow Watercrown Grass	Herb	Th
86	<i>Setaria verticillata</i> (L.) P.Beauv.	Poaceae	Bristly Foxtail, Barchitta	Herb	Th
87	<i>Sorghum halepense</i> (L.) Pers.	Poaceae	Aleppo Grass, Baru, Chinna, Jangli Jowar	Herb	Th
88	<i>Strelitzia reginae</i> Banks	Strelitziaceae	Bird of Paradise, Crane Flower	Herb	G
89	<i>Syngonium podophyllum</i> Schott	Araceae	Arrowhead Plant, Arrowhead Vine	Climber	L
90	<i>Tradescantia pallida</i> (Rose) D.R.Hunt	Commelinaceae	Purple Heart, Wandering Jew, Purple Queen	Herb	Th
91	<i>Tulipa gesneriana</i> L.	Liliaceae	Didier's Tulip, Garden Tulip	Herb	G
92	<i>Typha domingensis</i> Pers.	Typhaceae	Elephant Grass, Small Bulrush, Patera, Pater	Herb	G
93	<i>Urochloa ramosa</i> (L.) T.Q.Nguyen	Poaceae	Browntop Millet, Makra, Murat	Herb	H
94	<i>Urochloa reptans</i> (L.) Stapf	Poaceae	Creeping Panic Grass, Para Grass, Para Ghas	Herb	H
95	<i>Wodyetia bifurcata</i> A.K.Irvine	Arecaceae	Foxtail Palm, Wodyetia Palm	Tree	Ph
96	<i>Yucca aloifolia</i> L.	Asparagaceae	Spanish Dagger, Adam's Needle	Shrub	Ch
97	<i>Yucca gloriosa</i> L.	Asparagaceae	Adam's Needle, Glorious Yucca	Shrub	Ch
98	<i>Zea mays</i> L.	Poaceae	Maize, Corn, Makka, Makai, Bhutta	Herb	Th
99	<i>Zephyranthes citrina</i> Baker	Amaryllidaceae	Yellow Rain Lily, Yellow Fairy Lily	Herb	G

of Delhi containing 377 genera and 551 species belonging to 90 families. Dicots were represented by 76 families, 299 genera and 448 species whereas monocots were represented by 14 families, 78 genera and 103 species. Again Mishra et al, (2015b) published a plant list of Delhi including 604 species belonging to 92 families and 399 genera from Delhi, some major families were Fabaceae (44 genera and 80 species), Asteraceae (43 genera and 43 species), Malvaceae (16 genera and 30 species), Amaranthaceae (12 genera 21 species), Apocynaceae, Convolvulaceae, Euphorbiaceae contained 20 species each). Also Mishra et al, (2015_c, 2019) reported several new plant records from Delhi region.

In present study, the generic diversity shows that *Ficus* L. is the largest genus represented by 15 species in the Rashtrapati Bhavan followed by *Brassica* L. and *Euphorbia* L. (08 each), *Citrus* L. (07), *Bauhinia* L., *Ipomoea* L. and *Solanum* L. (06 each), *Senegalia* Raf. (05), *Dracaena* L., *Jasminum* L., *Mammillaria* Haw., *Mentha* L., *Ocimum* L., *Phyllanthus* L. and *Rebutia* K.Schum. (04 each) respectively. The ten dominant families [Fabaceae (including Mimosaceae, Caesalpinaceae), Asteraceae, Poaceae, Malvaceae (including Bombacaceae, Sterculiaceae, Tiliaceae), Apocynaceae (including Asclepiadaceae), Asparagaceae, Moraceae, Lamiaceae, Brassicaceae and Bignoniaceae respectively] present in the Flora of Rashtrapati Bhavan have been compared with Maheshwari, 1963 [Gramineae (Poaceae), Leguminosae (Fabaceae), Compositae (Asteraceae), Cyperaceae, Acanthaceae,

Euphorbiaceae (including Putranjivaceae), Convolvulaceae, Malvaceae, Amaranthaceae and Scrophulariaceae respectively] (The Flora of Delhi) and Mishra et al, 2015a, [Poaceae, Fabaceae, Asteraceae, Malvaceae, Amaranthaceae, Apocynaceae, Convolvulaceae, Euphorbiaceae, Acanthaceae and Lamiaceae respectively] shows that in present study Fabaceae is the largest family while in study of Maheshwari (1963) & Mishra et al, (2015_a) Poaceae was the largest family.

The vascular plants composition has been analyzed in terms of biological spectrum for the life form and it is compared with the normal spectrum of Raunkiaer (1934). The representation of various life forms in spectrum is Phanerophytes (223), Therophytes (174), Chamaephytes (103), Lianas (54), Geophytes (49) and Hemicryptophytes (17). From Table 1 and Figure 1 it is clear that Phanerophytes constitute the highest percentage (36%) which is less than normal spectrum. The life forms next in importance are Therophytes (28 %), Chamaephytes (16%), Lianas (9%), Geophytes (8%) and Hemicryptophytes (3%). The percentage of Therophytes is two times more than normal spectrum. This is natural since annuals with a short span of 2 to 4 months of life cycle are best adopted to evade the unfavourable period as seeds, which are left in the soil. However, the percentage of Phanerophytes does not exceed the corresponding percentage in the normal spectrum while percentage of Chamaephytes and Geophytes exceeds the corresponding percentage in the normal spectrum. While the percentage of Hemicryptophytes is 8.5 times less than

normal spectrum. On the basis of life-forms the phytoclimate is Thero-Chamae-Geo-phytic.

Rashtrapati Bhavan Estate is rich in plant diversity and always looks-green due to occurrence of various cultivated plants. But some parts of this Estate covered with Ridge forest is highly diversified in plant diversity. In present study 620 species of vascular plants belonging to 112 families and 444 genera were reported, out of which 01 Pteridophyte, 10 Gymnosperms and 609 species of Angiosperms were present. Fabaceae (including Mimosaceae, Caesalpiniaceae) is the largest family among Dicots and Poaceae is the largest family of Monocots. Earlier, Maheshwari (1963) published *The Flora of Delhi and Illustrations of the Flora of Delhi* in 1966 reported 531 indigenous and naturalized species with detail description of 478 species along with their economic importance. During his study Poaceae was the dominant family followed by Leguminosae (Fabaceae) and Compositae (Asteraceae). Later on Dakshini and Vijayaraghavan (1970), Viswanathan et al, (1982, 1984), Viswanathan and Singh (1986), Sharma and Ahmad (1990_{a,b}, 1991), Sharma (1994, 1997 & 2002) reported various new species which were addition to Delhi Flora. Lal et al, (2002) studied aquatic vegetation in and around Delhi. Kumar and Yadav (2005) conducted a detailed study on the grasses of Delhi region, where he reported 128 species (excluding bamboos) belonging to 70 genera, of which 24 species, 1 sub-species and 1 variety belonging to 21 genera were new records for this region. Naithani et al, (2006) explored the plants of Ridges of Delhi wherein he reported 414 species of angiosperms belonging to 270 genera and 80 families. Krishen (2006) reported 252 tree species from Delhi. Singh (2007_a) has published the Trees of Rashtrapati Bhavan with the descriptive remarks and uses of 160 tree species introduced or naturally occurring since the establishment of the Rashtrapati Bhavan Estate in 1929. Singh (2007_b) also published a beautiful pictorial book entitled 'Roses of Mughal Garden' described all the varieties of Roses present in Mughal Gardens. Mishra et al, (2015_a) published list a floral diversity of Delhi containing 377 genera and 551 species belonging to 90 angiosperm families. Again Mishra et al, (2015_{c,d}, 2019) published a plant list of Delhi including 604 species belonging to 92 families and 399 genera from Delhi. During his study Poaceae was the dominant family followed by Fabaceae and Asteraceae. Also Mishra et al, (2015_{c,d}, 2019) reported several new plant records from Delhi region. Baviskar (2016) published a book entitled 'First Garden of The Republic' described important flora and fauna of Rashtrapati Bhavan. On the basis of life-forms the phytoclimate of Rashtrapati Bhavan Estate is Thero-Chamae-Geo-phytic. Similar study was conducted by Soni et

al, (2020) in Gargi College campus, University of Delhi and reported 199 plant species of 172 genera and 69 families were recorded, including 2 pteridophytes, 7 gymnosperms and 190 angiosperms (23% monocots and 77% dicots). Phanerophytes were the most abundant life form that constituted 55.28% of the total flora, followed by therophytes (29.15%), chamaephytes (6.53%), geophytes (5.03%) hemicryptophytes (3.02%), and hydrophytes (1.01%). Grisebach (1838) and Drude (1890) have emphasized the dependence of lifeforms on climate and assessed the role of species in vegetation with special reference to duration of protection to the perennating organs and mode of propagation.

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REFERENCES

- Baviskar A 2016. *First Garden of the Republic*. Rashtrapati Bhavan, New Delhi, India.
- Chase MW, Christenhusz MJM, Fay MF, Byng JW, Judd WS, Soltis DE, Mabberley DJ, Sennikov AN, Soltis PS and Stevens PF 2016. The Angiosperm Phylogeny Group, An update of the Angiosperm Phylogeny Group classification for the orders and families of flowering plants: APG IV. *Botanical Journal of the Linnean Society* **181**(1): 1-20.
- Dakshini KM and Vijayaraghavan MR 1970. *Cotula australis* (Sieb. Ex. Spreng.) Hook.f.: A new record for North india. *Indian Forester* **96**(1): 24-25.
- Drude D 1980. *Handbuch der Pflanzengeographie*. J. Engelhorn, Stuttgart, p. 528.
- Ellenberg H and Mueller-Dombois D 1974. A key to Raunkiaer's life forms with revised sub division. Appendix A. In: Mueller-Dombois D and Ellenberg H (eds.). *Aims and Methods of Vegetation Ecology*. John Wiley and Sons, New York.
- Grisebach A 1838. Über den Einfluss des Klimas auf die Begrenzung der natürlichen Floren. *Linnaea* **12**: 159-200.
- IPNI 2022. International Plant Names Index. Published on the Internet <http://www.ipni.org>, The Royal Botanic Gardens, Kew, Harvard University Herbaria & Libraries and Australian National Botanic Gardens.
- Jain S K and Rao R 1977. *A handbook of field and herbarium methods*. Today and Tomorrow's Printers and Publishers. New Delhi.
- Krishen P 2006. *Trees of Delhi: A Field Guide*. Dorling Kindersley (India) Pvt.Ltd.
- Kumar A and Yadav SR 2005. Additions to the Grasses of Delhi. *Journal of Economic and Taxonomy Botany* **29**(4): 815-827.
- Lal C, Ghildiyal JC and Maheshwari DK 2002. Survey of aquatic vegetations in and around Delhi. *Journal of Economic and Taxonomic Botany* **26**(3): 547-549.

- Maheshwari J 1963. *The Flora of Delhi*. Council of Scientific and Industrial Research. New Delhi.
- Maheshwari JK 1966. *Illustrations of the Flora of Delhi*. Council of Scientific and Industrial Research. New Delhi.
- Mishra AK, Mir SA, Sharma MP and Singh HB 2019. Addition to the Flora of Delhi. *Indian Journal of Plant Sciences* **39**(2): 64-67.
- Mishra AK, Sharma MP and Singh H 2015_a. Floristic diversity of Delhi, India: A checklist. *International Journal of Herbal Medicine* **3**(4): 08-18.
- Mishra AK, Sharma MP and Singh H 2015_b. Angiospermic Flora of Delhi, India: An Updated Checklist. *Indian Journal of Plant Sciences* **4**(3): 58-84.
- Mishra AK, Sharma MP and Singh H 2015_c. Additions to the Flora of Delhi: Part II. *Indian Journal of Plant Sciences* **4**(2): 1-6.
- Mishra AK, Sharma MP and Singh H 2015_d. Additions to the Flora of Delhi: Part III. *Indian Journal of Plant Sciences* **4**(3): 38-40.
- Naithani HB, Chandra S and Pal M 2006. Additions to the Flora of Delhi. *Indian Forester* **132**(5): 589-599.
- Raunkiaer C 1934. *The Life-forms of plants and Statistical Plant Geography*. Oxford University Press, Oxford.
- Sharma MP 1994. *Alternanthera paronychioides* (Amaranthaceae) New Plant Record for Delhi. *Journal of Economic and Taxonomic Botany* **18**(2): 395.
- Sharma MP 1997. Flora of Delhi: New plant record for Delhi. *Journal of Economic and Taxonomic Botany* **21**(1): 245-246.
- Sharma MP 2002. *Balanophora dioica* Royle. *Journal of Economic and Taxonomic Botany* **26**(1): 103-104.
- Sharma MP and Ahmad J 1990_a. *Capparis zeylanica* (L.) (Capparidaceae): An addition to flora of Delhi. *Journal of Economic and Taxonomic Botany* **14**(3): 740.
- Sharma MP and Ahmad J 1990_b. Some rare or less known plants of Delhi. *Journal of Economic and Taxonomic Botany* **14**(1): 177-180.
- Sharma MP and Ahmad J 1991. *Cocculus pendulus* (J.R. and Forst.) Diels (Menispermaceae): New record for Delhi. *Indian Journal of Forestry* **14**(1): 76.
- Singh B 2007_a. *Trees of Rashtrapati Bhavan*. Rashtrapati Bhavan, New Delhi, India.
- Singh B 2007_b. *Roses of Mughal Garden*. Rashtrapati Bhavan, New Delhi, India.
- Soni R, Puri R and Kapai VY 2020. Floristic composition and life form spectrum analysis of vascular plants growing in Gargi College campus, University of Delhi, Delhi-49. *Journal of Plant Science Research* **36**(1/2): 167-175.
- Viswanathan MV and Singh HB 1986. A new exotic Solanaceous weed in old world. *Journal of the Bombay Natural History Society* **83**(Suppl.) 226-330.
- Viswanathan MV, Singh HB and Bhawat PR 1982. Additions to the Flora of Delhi. *Journal of Economic and Taxonomic Botany* **14**(3): 579-580.
- Viswanathan MV, Singh HB and Bhawat PR 1984. new plant records for the upper gangetic plain from Delhi. *Indian Journal of Forestry* **7**(2): 157-158.