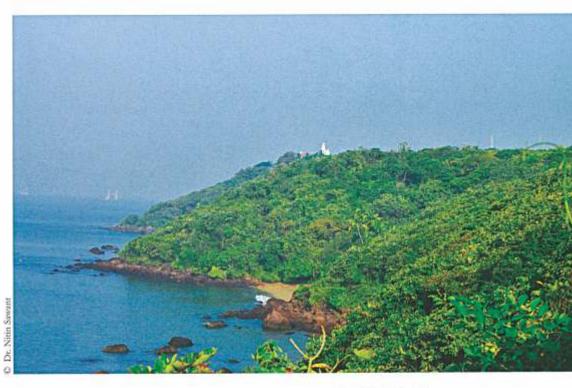


RAJ BHAVAN GOA





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Raj Bhavan, Goa Governor of Goa

MESSAGE

Soon after my assumption of office as Governor of Goa, myself and my husband, Dr. Ram Kripal Sinha, former Union Minister, were happy to see the book—'Glimpses of Flora and Fauna of Raj Bhavan Goa' compiled by the Department of Forests, Government of Goa, in co-ordination with the Goa State Biodiversity Board. This book, which basically contains photographs and brief mentions on the flora and fauna of the Raj Bhavan estate, is not only informative but also interesting for the readers. It was published during the tenure of Shri Bharat Vir Wanchoo, former Governor. I appreciate the efforts made by all those who were involved in this task.

Goa is endowed with great natural wealth, including a treasure of endemic plants and animals, forming part of the Sahyadris (Western Ghats), which, I am told, is one of the 34 biodiversity hot-spots of the world. The vast variety of flora and fauna can be said to have evolved after centuries of evolutionary process. The flora and fauna has a special significance to the State of Goa, being an attractive place for tourists. We need to realize their aesthetic and recreational values.

The Goa Raj Bhavan is unique, as it is the oldest Raj Bhavan in the country. The 86acre Raj Bhavan estate overlooking the ever-flowing Mandovi river, on one side, and the vast
Arabian sea, on the other side, predominantly consists of forests with varied species of flora
and fauna. The mighty trees, the multi-sized plants and creepers, the colourful and attractive
birds and butterflies and other different kinds of creatures found in the estate, have always
fascinated me and also the visitors to this place. All these creations of God have a very
important role in the preservation of ecological balance and maintenance of the harmony of
nature. They impregnate lives with aesthetic beauty, grace and grandeur. One can imagine
how lusterless, bleak and boring will be life in the absence of these precious gifts of nature. I
think, a comprehensive survey and study on scientific lines will be useful to list out the actual
and complete number of trees, plants, creepers, shrubs and the fauna found here, both
endemic and seasonal, and their inherent value.

I am happy that, year after year, efforts are being made to further enrich the flora and fauna of this estate. I am told that it was during the tenure of the late Shri Kidar Nath Sahani, former Governor that an Aushadi Vatika was initiated and developed in the campus and it was visited by the late Dr. A.P.J. Abdul Kalam, former President of India, during his visit to Goa and the Raj Bhavan. I am happy that the Department of Forests has expanded the Aushadi Vatika, which, today, is an added source of attraction and appreciation for the visitors.

I hope that this book will be of immense interest to all those who go through it.

Hridula Sinha.



Foreword

It is a matter of immense satisfaction and pride that Forest Department, Government of Goa in collaboration with Goa State Biodiversity Board has compiled and brought out for Raj Bhavan, Goa a small coffee table book on the flora and fauna of Raj Bhavan. I consider it a privilege to write the foreword of this most beautiful publication.

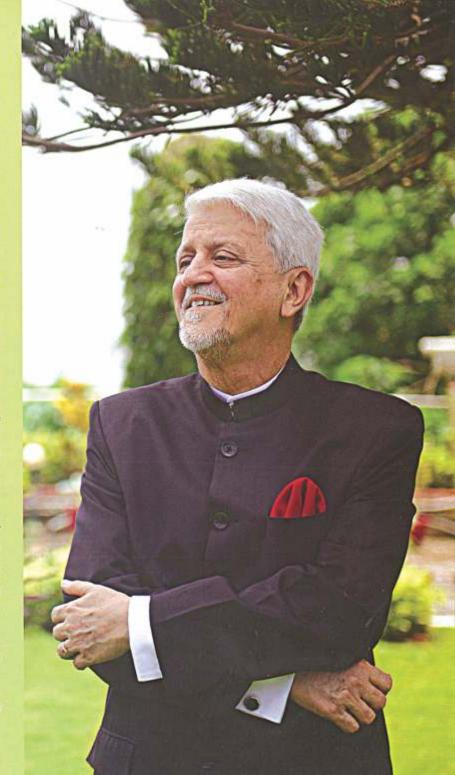
I must say this coffee table book has been conceived and published in a most professional manner, with the team having set very high bench marks for themselves. The quality of the photographs in particular are spectacular and of an extremely high order and clicked with great sensitivity, taste and finesse. All of them are stunning, breath-taking and eye-catching. The chapter on the butterflies is, indeed, most interesting and informative.

The quality of the paper used and the printing is of an exceptional order and the flow of the contents has been done in a very scientific yet elegant manner. By documenting the flora and fauna of Raj Bhavan, the team of Goa State Biodiversity Board and Forest Department has done a marvelous and splendid service for future readers, particularly those who would visit Raj Bhavan. This coffee table book has in many ways added to the radiance and glory of Raj Bhavan.

I would like to place on record my deep admiration for Mr. Richard D'Souza, Principal Chief Conservator of Forests under whose overall guidance, this most dazzling coffee table book has been published. He was, indeed, the prime mover of this project and his attention to detail is evident in the end product. I would like to, in particular, compliment Dr. Nitin S. Sawant (Member Secretary, Goa State Biodiversity Board) and Miss Trupti D. Jadhav (Research Scholar, Goa University) for their most outstanding and painstaking field work, photo documentation and listing and identification of the flora and fauna at Raj Bhavan. Mr. Raman Kulkarni has done a magnificent job in clicking the photographs and in the designing of this book. The team has amply exhibited their professionalism and deep sense of commitment in completing this project. I would also like to place on record my deep appreciation of the efforts of Lt. Cdr. Gaurav Sahai, my ADC for not only contributing some photographs, but also coordinating the whole exercise and assisting the above named officers during their field visits to the Raj Bhavan complex. He went well beyond his call of duty in his efforts to complete this classy project.

This coffee table book would be a treasure for Raj Bhavan and would add to its magnificent and sublime glory. The publication is a tribute to Raj Bhavan, the Forest Department, Government of Goa and Goa State Biodiversity Board.

(H. E. Bharat Vir Wanchoo) Governor of Goa





Location

bays, alongwith capes projecting into the sea, Goa has many strategic points which provide dramatic and rare views of the surrounding waters and landscape, Among these capes, the one on which the present residence of the Head of State of Goa is located, and, one which is popularly termed as Raj Bhavan, earlier known as Cabo (the Portuguese word for cape) is the best known. It is at the confluence of the two main rivers of Goa: the Mandovi and the Zuari. There is no better panoramic view available in Goa than from this cape: the Arabian Sea towards the west, the bay of the river Mandovi and Fort Aguada on the north, and, on the south, the bay of the river Zuari and the busy port of Mormugao.





Ancient History

This particular cape had remained unhabitated and isolated over the centuries. It is possible that there may have been some human habitation in the earlier centuries, but, as it is a densely forested area, there are no signs of earlier settlers. The beauty, solitude, uniqueness and strategic features of the Cabo, now Raj Bhavan were not lost on the Portuguese. A small chapel was constructed at the very end of the cape dedicated to Our Lady of the Cape (Nossa Senhora do Cabo). It has been used as landmark by the seafarers, for centuries. It still exists as a landmark for the seafarers.











Many birds visit trees in search of nectar when in flower.



Smilax zeylanica L. Local Name: Chopchini, Ghotwel

Scandent or twining. Leaves alternate, rounded or truncate at base, elliptic-ovate or suborbicular, glabrous, strongly nerved, petiole up to 1.5 cm long. Flowers numerous in umbels on slender branches. Perianth lobes 6 in 2 wholrs. Stamens 6, adnate to perianth. Berries 0.5-0.8 cm in diam, globose, reddish at maturity.

Flowering & Fruiting : June-February



Gloriosa superba L.

Perennial herbaceous climbers. Rootstock fleshy, white, arched; roots fibrous. Stems and branches terete. Leaves ca 12 x 3 cm. alternate, opposite or in whorls of 3, ovatelanceolate, acuminate and often coiled at apex, rounded or cordate at base, entire. Flowers large, axillary, solitary or in subcorymbose cymes; pedicels ca 10 cm long, the tip deflexed. Perianth segments distinct, ca 5 x 1 cm, linear-lanceolate, green, turning yellowish-green below middle and red above at maturity, with crispy wavy margins. Stamens 6; filaments exserted, ca 4 cm long, dark purple; anthers linear, dorsifixed, versatile. Style long, trifid. Capsules ellipsoid, ca 3 x 1.5 cm, dark green. Seeds many, subglobose, angular, black.

Flowering & Fruiting : July-November Local Name: Bachnaj, Kal-lawi



Barleria terminalis



Tricholepis amplexicaulis



Anacardium occidentale



Ixora coccinea







Terminalia paniculata



Careya arboea

Urena lobata



Aristolochia indica









Tridax procumbens



Zanthoxylum rhetsa

Mimosa pudica





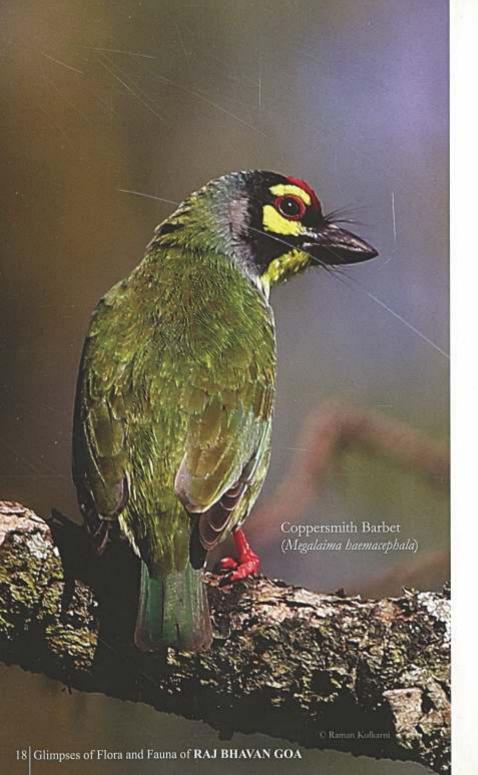
White-throated Kingfisher (Haleyon smyrnensis)

hirty (30) species of birds were observed during the field visit to Raj Bhavan. The Raj Bhavan premises harbours varid species of forest and wetland birds which also includes raptors and owlets. It's a nesting ground for birds such Brahminy Kite, Drongo, Bulbuls and Sunbirds. Birds such as Paradise Flycathcher, Rufous Woodpecker adds to the beauty of this place.

Common Kingfisher (Alcedo atthis)

© Raman Kulkarni







Crimson-backed Sunbird (Nectarinia minima)



Orange-headed Thrush (Zoothera citrina)







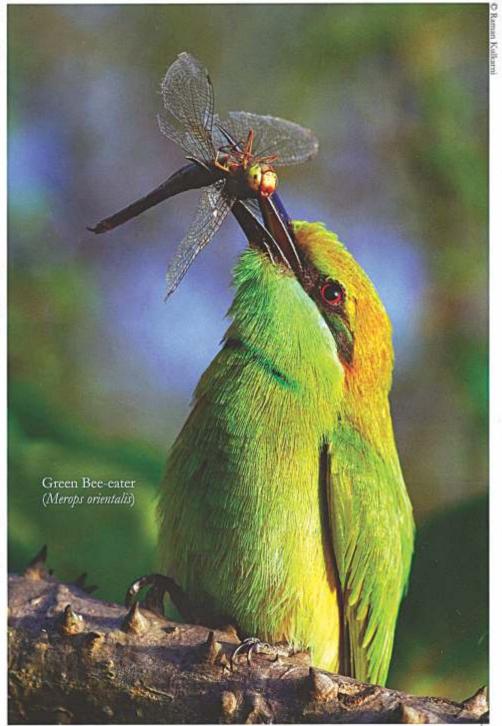
Asian Koel (Eudynamys scolopacea)



Jungle Babbler (Turdoides striatus)



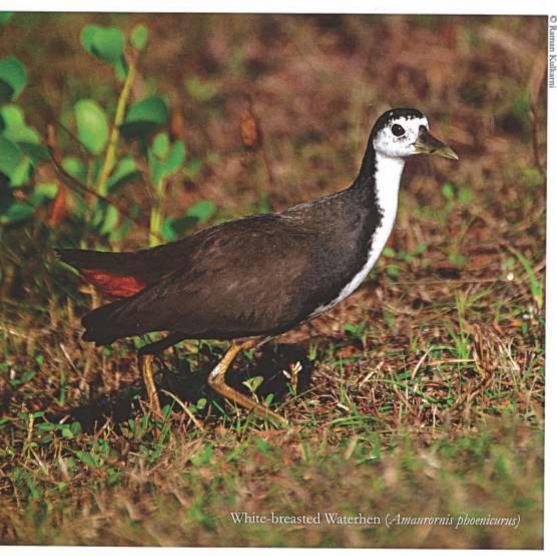
White-cheeked Barbet (Megalaima viridis)

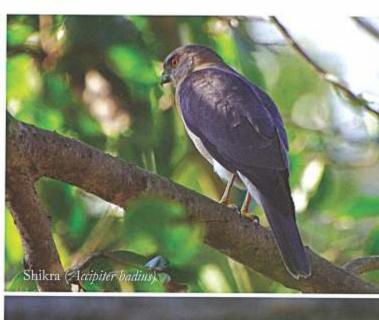


Glimpses of Flora and Fauna of RAJ BHAVAN GOA 21

















1 Choclate Pansy (Junonia iphita) 55-80 mm

² Lemon Pansy (Junonia lemonias) 40-60 mm

³ Tawny Coster (*Acraea violae*) 50-65 mm 4 Common Bushbrown (*Mycalesis perseus*) 38-55 mm



, © Raman Kulkarni



© Raman Kulkarni



140-190mm Southern Birdwing Troides minos



14-22mm Grass Jewel Freyeria trochylus





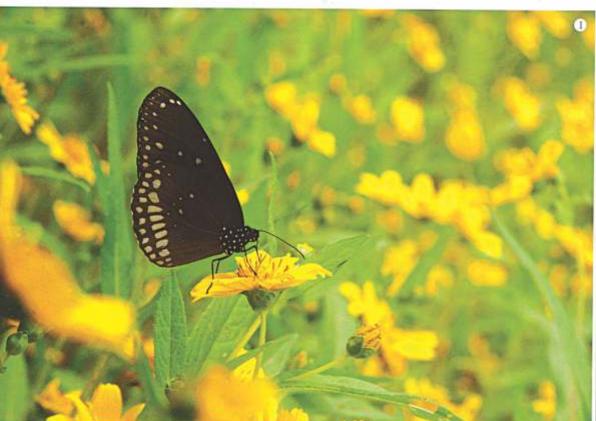








- 1 Tailed Jay (Graphium agamemnon) 85-100 mm
 2 Common Leopard (Phalanta phalantha) 50-60 mm
 3 Grey Count (Tanaecia lepidea) 65-80 mm
 4 One Spot Grass Yellow(Eurema andersoni) 38-45 mm
 5 Psyche (Leptosia nina) 35-50 mm
- 6 Red Helen (Papillio helenus) 110-130 mm



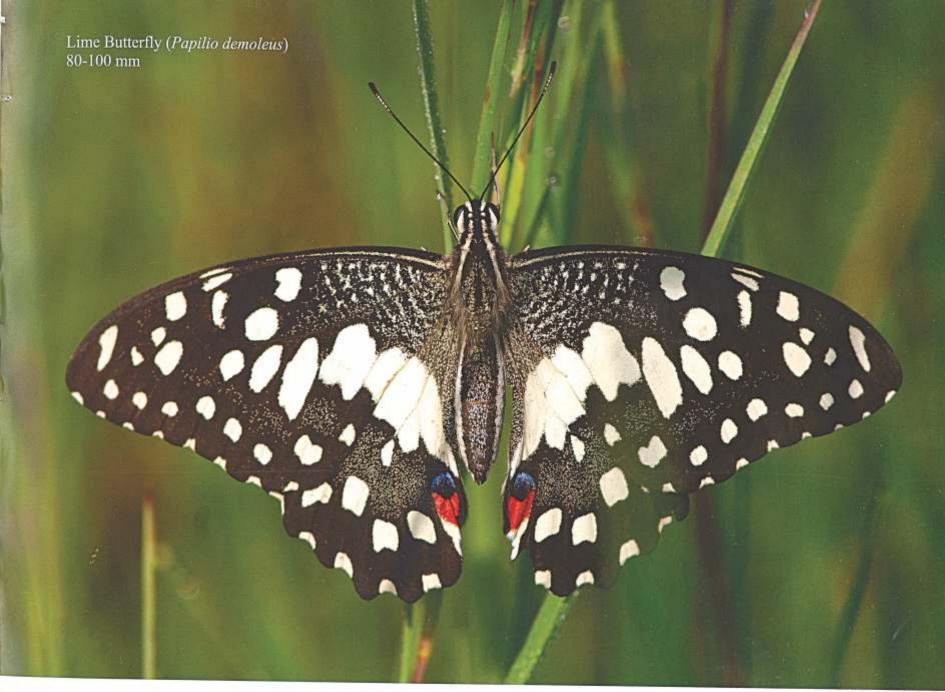
© Raman Kulkarni

- 1 Common Crow (Euploea core) 85-95 mm
- 2 Slate Flash (*Rapala manea*) 30-33 mm 3 Common Mormon (*Papilio polytes*) 90-100 mm 4 Common Sailer (*Neptis hylas*) 50-60 mm









© Raman Kulkarni









© Raman Kulkarni





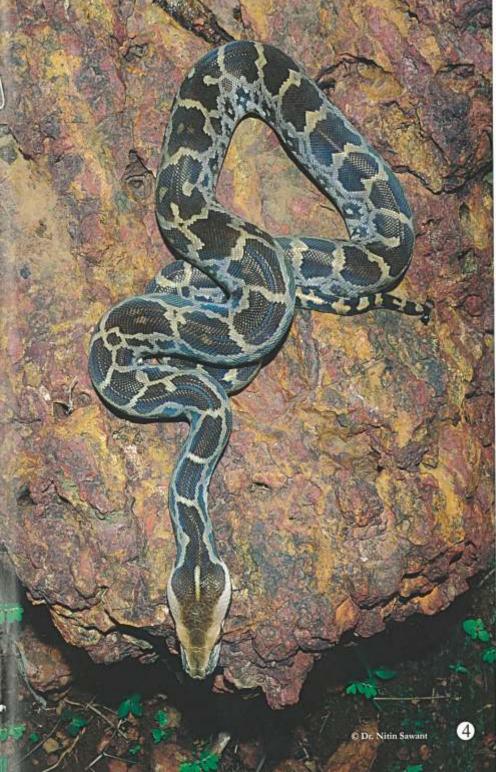




C Raman Kulkarni

Venomous Snakes

- Spectacled Cobra (Naja naja)
 Russell's Viper (Daboia russelii)
 Saw-scaled Viper (Echis carinatus)



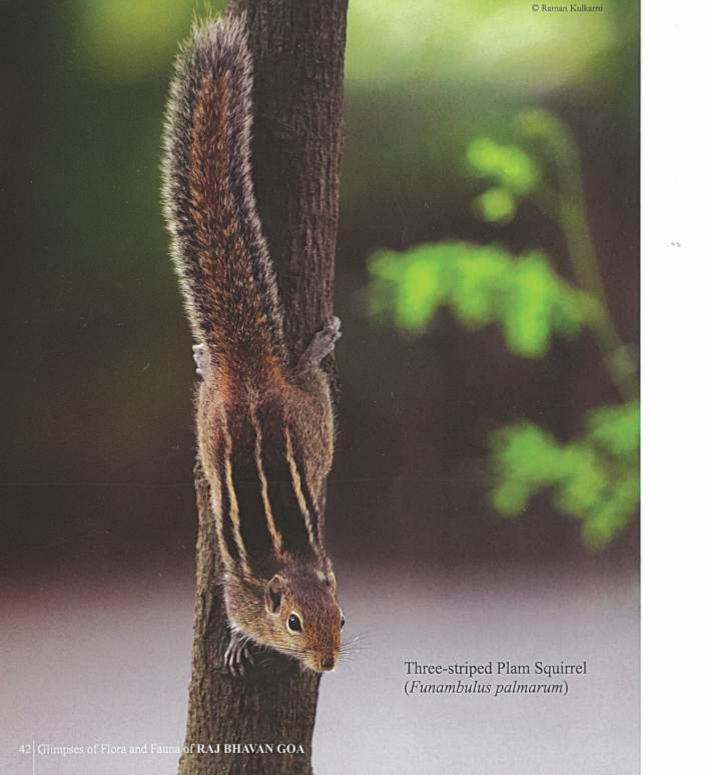




C Dr. Nitin Sawant

Non-venomous Snakes

- 4 Indian Rock Python (Python molurus molurus)
- 5 Banded Kukri Snake (Oligodon arnensis)
- 6 Common Bronzeback Tree Snake (Dendrelaphis tristis)



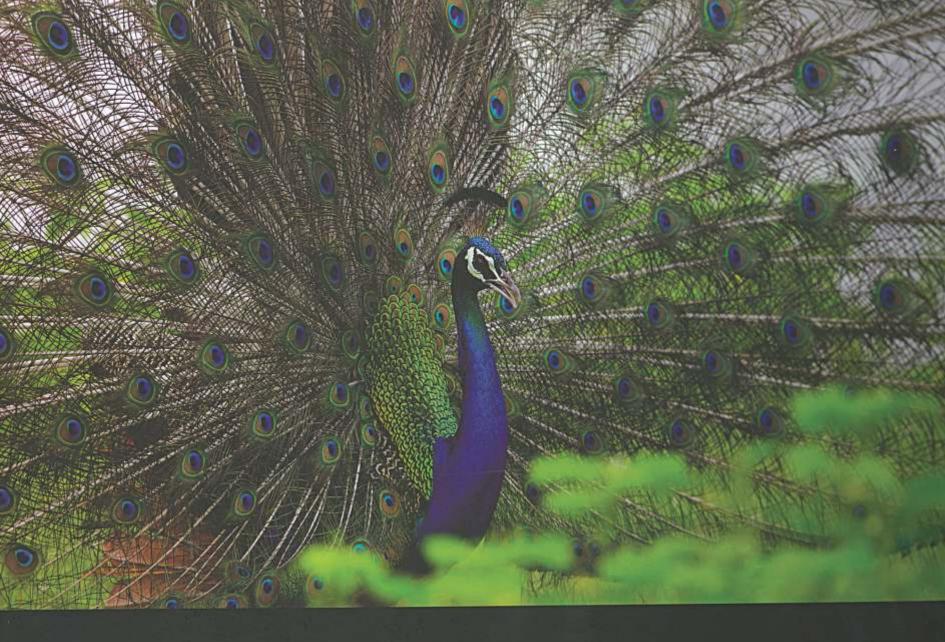


Checklist of Flora and Fauna of RAJ BHAVAN

Butterflies of Raj Bhavan Birds of Raj Bhavan Reptiles of Raj Bhavan Flora of Raj Bhavan 1. Ashy Drongo Checkered Keel back 1. Acacia 1. Angled Castor 2. Jungle Babbler 2. Common Bronze-Back Tree Snake 2. Air Potato 2. Chocolate Pansy 3. Amaltas/ Golden shower tree/Indian Laburnum Common Indian Cobra 3. Common Bluebottle 3. Black Wooded Oriole 4. Angled Sida 4. Common Kukri 4. Common Bush brown 4. Brahminy Kite 5. Bamboo 5. Forest Calottes 5. Common Castor 5. Bronze Drongo 6. Beef Wood Tree 6. Common Drongo 6. Green Vine Snake 6. Common Cerulean 7. Belliric Myrobalan/Beach Almond 7. Common House Crow 7. Indian Rock Python 7. Common Emigrant 8. Blue Barleria 8. Common House Swallow 8. Rat Snake 8. Common Evening Brown 9. Cashew Tree 9. Russel's Viper 9. Common Grass Yellow 9. Common Iora 10. Chandada 10. Saw Scales viper 10. Common Gull 10. Coppersmith Barbet 11. Cluster Fig Tree 11. Striped Keelback 11. Common Indian Crow 11. Cuckoo Shrike 12. Coat Button Whitaker's Sand Boa 12. Common Leopard 12. Flower Pecker 13. Coconut Tree 13. Golden Oriole 13. Common Mime 14. Common Foxtail Orchid 14. Common Mormon 14. Jungle Babbler 15. Common Lantana 15. Common Blue King Fisher Mammals of Raj Bhavan 15. Common Rose 16. Common Purple Mallow 16. White-throated King Fisher 1. Bats 16. Common Sailor 17. Common Sida 17. Common Sergeant 2. Fox 17. Koel 18. Common Suprge 3. Hanuman Langur 18. Common Wanderer 18. Lesser Flameback 19. Common Swordbean 19. Orange Headed Ground Thrush 4. Indian Palm Civet 19. Denied Eggfly 20. Cuthch Tre/Black Catechu 5. Mongoose 20. Paradise Flycatcher 20. Glassy Tiger 21. Devil Weed 21. Great Egg fly 21. Peacock 6. Porcupine 22. Dhaman 22. Red Whiskered Bulbul 7. Three Striped squirrel 23. Fish Tailed Palm 22. Great Orange Tip 23 Rofous Woodpecker 23. Lemon Pansy 24. Giant Milkweed 247 Shikra 24. Mottled Emigrant 25. Glory Lily 25 Small Sunbird 26. Indian Ash Tree 25. One Spot Grass Yellow 27. Indian Birthwort 26. Plain Tiger 26. Swift 28. Indian Prickly Ash 27. Psyche 27. Warbler 29. Indian Sorrel 28. Red Helen 28. White Bellied Sea Eagle 30. Indian Tulip Tree 29. White Browed Bulbul 29. Slate Flash 31. Jungle Flame 30. Small Grass Yellow 30. White Cheeked Barbet 32. Karanda 31. Wire Tailed Swallow 31. Southern Birdwing 33. Kindal Tree 32. Tailed Jay 34. Kumbo 33. Tamil Lacewing 35. Mango Tree 34. Tawny Coster 36. Matti/Crocodile Bark Tree 37. Nandi Tree 38. Nux Vomica/ Poison Nut 39. Pandanus/Common Screw Pine 40. Paper Flower Climber 41. Pot Cassia 42. Purple Bauhinia 43. Railway Glory 44. Sacred Fig. 45. Screw Fruit Bush 46. Serpent Root 47. Silk Cotton Tree 48. Smilax 49. Spanish Cherry 50. Tamarind Tree 51. Tangled Mat 52. Touch Me Not 53. Yellow Flame Tree 44 Glimpses of Flora and Fauna of RAJ BHAVAN GOA



Note:	
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RAJ BHAVAN GOA