

## Appendix - I

### Checklist of the birds of the study area

Family: Phasianidae

1.Red Spurfowl *Galloperdix spadicea spadicea*

2.Grey Jungle Fowl *Gallus sonneratii*

Family: Dendrocygnidae

3.Lesser Whistling Teal *Dendrocygna bicolor*

Family: Picidae

4.Speckled Piculet *Picumnus innominatus malayorum*

5.Pigmy Woodpecker *Dendrocopos nanus*

6.Yellowfronted Pied Woodpecker *Dendrocopos mahrattensis*

7.Rufous Woodpecker *Celeus brachyurus*

8.Indian Great Black Woodpecker *Dryocopus javensis hodgsonii*

9.Small Yellownaped

Woodpecker *Dryocopus chlorolophus chlorigaster*

10.Little Scalybellied

Green Woodpecker *Picus xanthopygaeus*

11.Indian Goldenbacked

Threetoed Woodpecker *Dinopium javanense malabaricum*

12.Lesser Goldenbacked

Woodpecker *Dinopium benghalense tehminae*

13.Larger Goldenbacked

Woodpecker *Chrysocolaptes lucidus*

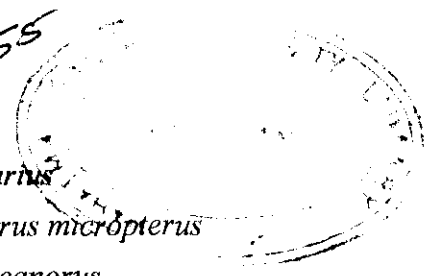
14.Heartspotted Woodpecker *Hemicircus canente canente*

Family: Megalaimidae

15.Small Green Barbet *Megalaima viridis*

16. Crimsonthroated Barbet	<i>Megalaima rubricapilla malabarica</i>
17. Crimsonbreasted Barbet	<i>Megalaima haemacephala indica</i>
Family: Bucerotidae	
18. Malabar Grey Hornbill	<i>Ocyrceros griseus</i>
Family: Upupidae	
19. Hoopoe	<i>Upupa epops ceylonensis</i>
Family: Trogonidae	
20. Malabar Trogon	<i>Harpactes fasciatus malabaricus</i>
Family: Coraciidae	
21. Indian Roller	<i>Coracias benghalensis indica</i>
22. Broadbilled Roller	<i>Eurystomus orientalis laetior</i>
Family: Alcedinidae:	
23. Common Kingfisher	<i>Alcedo atthis taprobana</i>
24. Threetoed Kingfisher	<i>Ceyx erithacus erithacus</i>
25. Storkbilled Kingfisher	<i>Pelargopsis capensis capensis</i>
26. Whitebreasted Kingfisher	<i>Halcyon smyrnensis fusca</i>
Family: Cerylidae	
27. Travancore Pied Kingfisher	<i>Ceryle rudis travancoreensis</i>
Family: Meropidae	
28. Bluebearded Bee-eater	<i>Nyctyornis athertoni athertoni</i>
29. Green Bee-eater	<i>Merops orientalis orientalis</i>
30. Bluetailed Bee-eater	<i>Merops philippinus philippinus</i>
31. Chestnutheaded Bee-eater	<i>Merops leschenaulti leschemaulti</i>
Family: Cuculidae	
32. Pied Crested Cuckoo	<i>Oxylophus jacobinus</i>
33. Redwinged Crested Cuckoo	<i>Clamator coromandus</i>
34. Common Hawk Cuckoo	<i>Cuculus varius</i>

T 1055



- |  |   |
|--|---|
| 35. Brainfever Bird                        | <i>Cuculus varius varius</i>                |
| 36. Indian Cuckoo                          | <i>Cuculus micropterus micropterus</i>      |
| 37. The Cuckoo                             | <i>Cuculus canorus canorus</i>              |
| 38. Indian Banded Bay Cuckoo               | <i>Cacomantis sonneratii sonneratii</i>     |
| 39. Indian Plaintive Cuckoo                | <i>Cacomantis passerinus</i>                |
| 40. Drongo Cuckoo                          | <i>Surniculus lugubris dicruroides</i>      |
| 41. Koel                                   | <i>Eudynamis scolopacea scolopacea</i>      |
| 42. Small Greenbilled Malkoha              | <i>Phaenicophaeus viridirostris</i>         |
| Family: Centropodidae                      |   |
| 43. Crow-Pheasant or Coucal                | <i>Centropus sinensis parroti</i>           |
| Family: Psittacidae                        |   |
| 44. Indian Lorikeet                        | <i>Loriculus vernalis vernalis</i>          |
| 45. Roseringed Parakeet                    | <i>Psittacula krameri manillensis</i>       |
| 46. Blossomheaded Parakeet                 | <i>Psittacula cyanocephala cyanocephala</i> |
| 47. Bluewinged Parakeet                    | <i>Psittacula columboides</i>               |
| Family: Apodidae                           |   |
| 48. Indian Edible-nest Swifts              | <i>Collocalia unicolor</i>                  |
| 49. Whiterumped Spinetail                  | <i>Zoonavena sylvatica</i>                  |
| 50. Large Brownthroated<br>Spinetail Swift | <i>Hirundapus giganteus</i>                 |
| 51. Palm Swift                             | <i>Cypsiurus balasiensis</i>                |
| 52. House Swift                            | <i>Apus affinis affinis</i>                 |
| Family: Hemiprocnidae                      |   |
| 53. Crested Swift                          | <i>Hemiprogne coronata</i>                  |
| Family: Tytonidae                          |   |
| 54. Barn Owl                               | <i>Tyto alba stertens</i>                   |
| 55. Peninsular Bay Owl                     | <i>Phodilus badius ripleyi</i>              |
| Family: Strigidae                          |   |
| 56. Scops Owl                              | <i>Otus scops rufipennis</i>                |

57. Collared Scops Owl	<i>Otus bakkamoena bakkamoena</i>
58. Forest Eagle – Owl	<i>Bubo nipalensis nipalensis</i>
59. Brown Fish Owl	<i>Ketupa zeylonensis</i>
60. Mottled Wood Owl	<i>Strix ocellata ocellata</i>
61. Jungle Owlet	<i>Glaucidium radiatum malabaricum</i>
62. Brown Hawk-Owl	<i>Ninox scutulata hirsuta</i>
Family: Batrachostomidae	
63. Ceylon Frogmouth	<i>Batrachostomus moniliger</i>
Family: Eurostopodidae	
64. Great Eared Nightjar	<i>Eurostopodus macrotis bourdilloni</i>
Family: Caprimulgidae	
65. Indian Jungle Nightjar	<i>Caprimulgus indicus indicus</i>
66. Longtailed Nightjar	<i>Caprimulgus atripennis</i>
67. Common Indian Nightjar	<i>Caprimulgus asiaticus asiaticus</i>
68. Franklin's or Allied Nightjar	<i>Caprimulgus affinis monticolus</i>
Family: Columbidae	
69. Blue Rock Pigeon	<i>Columba livia intermedia</i>
70. Nilgiri Wood Pigeon	<i>Columba elphinstonii</i>
71. Spotted Dove	<i>Storeptopelia chinensis suratensis</i>
72. Emerald or Bronzewinged Dove	<i>Chalcophaps indica indica</i>
73. Greyfronted Green Pigeon	<i>Trenon pompadora affinis</i>
74. Green Imperial Pigeon	<i>Ducula aenea pusilla</i>
75. Jerdon's Imperial Pigeon	<i>Ducula badia cuprea</i>
Family: Rallidae	
76. Whitebreasted Waterhen	<i>Amaurornis phoenicurusphoenicurus</i>
77. Ruddy Crake	<i>Porzana fusca zeylonica</i>
78. Kora or Watercock	<i>Gallicrex cinerea</i>
79. Purple Moorhen	<i>Porphyrio porphyrio poliocephalus</i>
80. Indian Moorhen	<i>Gallinula chloropus indica</i>

Family: Scolopacidae

81. Wood Sandpiper

*Tringa glareola*

82. Common Sandpiper

*Tringa hypoleucos hypoleucos*

Family: Jacanidae

83. Pheasant-tailed Jacana

*Hydrophasianus chirurgus*

84. Bronzewinged Jacan

*Metopidius indicus*

Family Charadriidae

85. Redwattled Lapwing

*Vanellus indicus indicus*

Family: Glareolidae

86. Small Indian Pratincole

*Glareola lactea*

Family: Laridae

87. Indian River Tern

*Sterna aurantia*

88. Whiskered Tern

*Chlidonias hybridus indicus*

Family: Accipitridae

89. Osprey

*Pandion haliaetus haliaetus*

90. Indian Blackcrested Baz

*Aviceda leuphotes leuphotes*

91. Honey Buzzard

*Pernis ptilorhyncus ruficollis*

92. Blackwinged Kite

*Elanus caeruleus vociferus*

93. Pariah or Black Kite

*Milvus migrans govinda*

94. Brahminy Kite

*Haliastur indus indus*

95. Greyheaded Fishing Eagle

*Ichthyophaga ichthyaetus*

96. Crested Serpent Eagle

*Spilornis cheela melanotis*

97. Crested Goshawk

*Accipiter trivirgatus peninsulae*

98. Shikra

*Accipiter badius badius*

99. Besra Sparrowhawk

*Accipiter virgatus besra*

100. Black Eagle

*Ictinaetus malayensis perniger*

101. Rufousbellied Hawk-Eagle

*Hieraaetus kienerii kienerii*

102. Crested Hawk-Eagle

*Spizaetus cirrhatus cirrhatus*

Family: Falconidae

103. Kestrel

*Falco tinnunculus tinnunculus*

104. Shahin Falcon

*Falco peregrinus peregrinator*

Family: Podicipedidae

105. Little Grebe

*Tachybaptus ruficollis*

Family: Anhingidae

106. Darter

*Anhinga melanogaster*

Family: Phalacrocoracidae

107. Little Cormorant

*Phalacrocorax niger*

108. Indian Shag

*Phalacrocorax fuscicollis*

109. Large Cormorant

*Phalacrocorax carbo sinensis*

Family: Ardeidae

110. Little Egret

*Egretta garzetta garzetta*

111. Grey Heron

*Ardea cinerea rectirostris*

112. Purple Heron

*Ardea purpurea manilensis*

113. Smaller Egret

*Mesophoyx intermedia*

114. Cattle Egret

*Bubulcus ibis coromandus*

115. Pond Heron or Paddy Bird

*Ardeola grayii grayii*

116. Little Green Heron

*Butorides striatus*

117. Night Heron

*Nycticorax nycticorax nycticorax*

118. Malay or Tiger Bittern

*Gorsachius melanolophus*

119. Chestnut Bittern

*Ixobrychus cinnamomeus*

120. Black Bittern

*Ixobrychus flavicollis flavicollis*

Family: Ciconiidae

121. Openbill Stork

*Anastomus oscitans*

122. Whitenecked Stork

*Ciconia episcopus*

Family Pittidae: Pittas

123. Indian Pitta

*Pitta brachyura brachyura*

Family: Irenidae

124. Fairy Bluebird *Irena puella puella*  
125. Jerdon's Chloropsis *Chloropsis cochinchinensis*  
126. Goldfronted Chloropsis *Chloropsis aurifrons frontalis*

Family: Laniidae

127. Brown Shrike *Lanius cristatus cristatus*  
128. Rufousbacked Shrike *Lanius schach caniceps*

Family: Corvidae

129. Indian Tree Pie *Dendrocitta vagabunda*  
130. Whitebellied Tree Pie *Dendrocitta leucogastra*  
131. House Crow *Corvus splendens protegatus*  
132. Jungle Crow *Corvus macrorhynchos culminatus*  
133. Ashy Swallow-Shrike *Artamus fuscus*  
134. Golden Oriole *Oriolus oriolus kundoo*  
135. Blacknaped Oriole *Oriolus chinensis diffusus*  
136. Blackheaded Oriole *Oriolus xanthornus xanthornus*  
137. Large Cuckoo-Shrike *Coracina macei*  
138. Blackheaded Cuckoo-Shrike *Coracina melanoptera sykesi*  
139. Small Minivet *Pericrocotus cinnamomeus*  
140. Scarlet Minivet *Pericrocotus flammeus flammeus*  
141. Pied Flycatcher-Shrike *Hemipus picatus leggei*  
142. Whitebrowed Fantail Flycatcher *Rhipidura aureola compressirostris*  
143. Black Drongo *Dicrurus macrocercus*  
144. Grey or Ashy Drongo *Dicrurus leucophaeus longicaudatus*  
145. Whitebellied Drongo *Dicrurus caerulescens caerulescens*  
146. Bronzed Drongo *Dicrurus aeneus aeneus*  
147. Haircrested or Spangled Drongo *Dicrurus hottentottus hottentottus*  
148. Greater Racket-tailed Drongo *Dicrurus paradiseus paradiseus*  
149. Blacknaped Flycatcher *Hypothymis azurea styani*  
150. Paradise Flycatcher *Terpsiphone paradisi*  
151. Common Iora *Aegithina tiphia multicolor*

152. Malabar Wood Shrike	<i>Tephrodornis gularis</i>
153. Common Woodshrike	<i>Tephrodornis pondicerianus</i>
Family: Muscicapidae	
154. Malabar Whistling Thrush	<i>Myiophonus horsfieldii horsfieldii</i>
155. Orangeheaded Ground Thrush	<i>Zoothera citrina citrina</i>
156. Whitethroated Ground Thrush	<i>Zoothera citrina cyanotus</i>
157. Blackcapped Blackbird	<i>Turdus merula bourdilloni</i>
158. Brown Flycatcher	<i>Muscicapa dauurica</i>
159. Brownbreasted Flycatcher	<i>Muscicapa mutui muttui</i>
160. Rufoustailed Flycatcher	<i>Muscicapa ruficauda</i>
161. Redbreasted Flycatcher	<i>Ficedula parva</i>
162. Verditer Flycatcher	<i>Eumyias thalassina</i>
163. Whitebellied Blue Flycatcher	<i>Cyornis Pallipes</i>
164. Bluethroated Flycatcher	<i>Cyornis rubeculoides</i>
165. Tickell's Blue Flycatcher	<i>Cyornis tickelliae</i>
166. Blue chat	<i>Luscinia brunnea</i>
167. Magpie-Robin	<i>Copsychus saularis ceylonensis</i>
168. Shama	<i>Copsychus malabaricus</i>
169. Indian Robin	<i>Saxicoloides fulicata fulicata</i>
Family: Sturnidae	
170. Greyheaded Myna	<i>Sturnus malabaricus malabaricus</i>
171. Common Myna	<i>Acridotheres tristis tristis</i>
172. Jungle Myna	<i>Acridotheres fuscus mahrattensis</i>
173. Grackle or Hill Myna	<i>Gracula religiosa indica</i>
Family: Sittidae	
174. Velvetfronted Nuthatch	<i>Sitta frontalis frontalis</i>
Family: Paridae	
175. Grey Tit	<i>Oarus major mahrattarum</i>
Family: Hirundinidae	



176. Dusky Crag Martin	<i>Hirundo concolor concolor</i>
177. Eastern Swallow	<i>Hirundo rustica gutturalis</i>
178. Wiretailed Swallow	<i>Hirundo smithii filifera</i>
179. Striated or Redrumped Swallow	<i>Hirundo daurica erythropygia</i>
Family: Pycnonotidae	
180. Greyheaded Bulbul	<i>Pycnonotus pricephalus</i>
181. Rubythroated Bulbul	<i>Pycnonotus melanicterus gularis</i>
182. Redwhiskered Bulbul	<i>Pycnonotus jocosus fuscicaudatus</i>
183. Redvented Bulbul	<i>Pycnonotus cafer cafer</i>
184. Yellowbrowed Bulbul	<i>Iole indica</i>
Family: Cisticolidae	
185. Streaked Fantail Warbler	<i>Cisticola juncidis salimalii</i>
186. Franklin's Wren-Warbler	<i>Prinia hodgsonii albogularis</i>
187. Ashy Wren-Warbler	<i>Prinia socialis socialis</i>
188. Plain Wren-Warbler	<i>Prinia inornata</i>
Family: Sylviidae	
189. Grasshopper Warbler	<i>Lacustella naevia straminea</i>
190. Paddyfield Warbler	<i>Acrocephalus agricola agricola</i>
191. Blyth's Reed Warbler	<i>Acrocephalus dumetorum</i>
192. Indian Great Reed Warbler	<i>Acrocephalus stentoreus brunnescens</i>
193. Thickbilled Warbler	<i>Acrocephalus aedon aedon</i>
194. Booted Warbler	<i>Hippolais caligata rama</i>
195. Tailor Bird	<i>Orthotomus sutorius guzuratus</i>
196. Tickell's Leaf Warbler	<i>Phylloscopus affinis affinis</i>
197. Greenish Leaf Warbler	<i>Phylloscopus trochiloides viridanus</i>
198. Wynad Laughing Thrush	<i>Garrulax delesserti delesserti</i>
199. Spotted Babbler	<i>Pellorneum ruficeps</i>
200. Slatyheaded Scimitar Babbler	<i>Pomatorhinus horsfieldii</i>
201. Blackheaded Babbler	<i>Rhopocichla atriceps bourdilloni</i>
202. Rufous Babbler	<i>Turdoides subrufus subrufus</i>

203. Jungle Babbler	<i>Turdoides striatus malabaricus</i>
204. Whiteheaded Babbler	<i>Turdoides affinis affinis</i>
205. Quaker Babbler	<i>Alcippe poioicephala poioicephala</i>
Family: Alaudidae	
206. Malabar Crested Lark	<i>Galerida malabarica</i>
Family: Nectariniidae	
207. Thickbilled Flowerpecker	<i>Dicaeum agile agile</i>
208. Tickell's Flowerpecker	<i>Dicaeum erythrorhynchos</i>
209. Nilgiri Flowerpecker	<i>Dicaeum concolor concolor</i>
210. Purplerumped Sunbird	<i>Nectarinia zeylonica flaviventri</i>
211. Small Sunbird	<i>Nectarinia minima</i>
212. Purple Sunbird	<i>Nectarinia asiatica asiatica</i>
213. Loten's Sunbird	<i>Nectarinia lotenia hindustanica</i>
214. Little Spiderhunter	<i>Arachnothera longirostris longirostris</i>
Family: Passeridae	
215. House Sparrow	<i>Passer domesticus indicus</i>
216. Yellowthroated Sparrow	<i>Petronia xanthocollis xanthocollis</i>
217. Forest Wagtail	<i>Dendronanthus indicus</i>
218. Large Pied Wagtail	<i>Motacilla maderaspatensis</i>
219. Grey Wagtail	<i>Motacilla cinerea cinerea</i>
220. Paddyfield Pipit	<i>Anthus novaeseelandiae malagensis</i>
221. Travancore Baya	<i>Ploceus philippinus travancoreensis</i>
222. Whitebacked Munia	<i>Lonchura striata striata</i>
223. Rufousbellied Munia	<i>Lonchura kelaarti jerdoni</i>
224. Spotted Munia	<i>Lonchura punctulata punctulata</i>

## Appendix II

### Checklist of plants recorded from the study area<sup>2</sup>

#### **Annonacea**

*Goniothalamus wightii* Hook. f. et Thomas.

*Miliusa eriocarpa* Dnn.

*Miliusa tomentosa* (Roxb.) Sinclair

*Polyalthia fragrans* (Dalz.) Bedd.

*Uvaria narum* (Dunn.) Wt. et Arn.

*Polyalthia coffeoides*, Hk.f. & T.

*Unona pannosa*, Dalz.

*Unona ramarowii*, Dunn-

#### **Myristicaceae**

*Gynmacranthera canarica* (king) Warb.

*Knema attenuata* (Hook. f. et Thomas.) Warb.

*Myristica dactyloides* Gaertn.

*Myristica malabarica* Lamk.

#### **Lauraceae**

*Actinodaphne bourdillonii* Gamble

*Actinodaphne madraspatana* Bedd. ex Hook.f.

*Actinodaphne malabaric* Balakr.

*Cinnamomum macrocarpum* Hook. f.

*Cinnamomum malabatrums* (Burm.f.) Bl.

*Cinnamomum riparium* Gamble

*Cinnamomum sulphuratum* Nees

*Litsea uccidentoides* K. et V.

---

<sup>2</sup> The checklist was prepared by Giby Kuriakose M. Sc.

*Litsea levigata*, Gamb

### **Loranthaceae**

*Sarcandra grandiflora* (Miq.) Subr. et Henry

### **Piperaceae**

*Peperomia dindigulensis* Miq.

*Piper nigrum* L.

*Pothomorphe subpeltata* (Willd.) Miq.

*Peperomia pellucida*, H.B. & K.

*Peperomia* spp: Ruiz & Pav.

### **Aristolochiaceae**

*Thottea siliquosa* (Lamk.) Ding Hou

*Aristolochia indica*, Linn.

### **Ranunculaceae**

*Naravelia zeylanica* (L.) A.DC.

### **Menispermaceae**

*Cissampelos pareira* L.

*Diploclisia glaucacens* (Bl.) Diels

*Cosinium fenestratum*, Colebr.

*Anamirta cocculus*, W & A.

*Tinospora cordifolia*, Miers.

*Cyclea peltata*, Diels.

*Stephania japonica*.

### **Sabiaceae**

*Meliosma simplicifolia* (Roxb.) Walp.

### **Ulmaceae**

*Trema orientalis* (L.) Bl.

*Holoptelea integrifolia*, Planch.

### **Moraceae**

*Artocarpus heterophyllus* Lamk.

*Artocarpus hirsuta* Lamk.  
*Ficus arnottiana* (Miq.) Miq.  
*Ficus benghalensis* L.  
*Ficus hispida* L.f.  
*Ficus religiosa* L.  
*Ficus talbotii* King  
*Ficus tinctoria* Forst. f.  
*Ficus travancorica* King.  
*Ficus tsjahela* Burm. f.  
*Streblus taxoides* (Heyne) Kurz  
*Ficus tsiala*, Roxb  
*Ficus callosa*, Willd.  
*Ficus dalhousiae*, Miq.  
*Ficus glomerata*, Bl.  
*Ficus gibbosa*, Bl.  
*Ficus asperima*, Roxb.  
*Dorstenia indica*, Wight.  
*Streblus asper*, Lour.  
*Antiaris toxicaria*, Leschen.

#### **Urticaceae**

*Boehmeria glomerulifera* Miq.  
*Boehmeria malabarica* Wedd.  
*Elatostema lineolatum* Wt.  
*Laportea interrupta* (L.) Chew  
*Pellionia heyneana* Wedd.  
*Pouzolzia zeylanica* (L.) Benn.  
*Pilea melastomoides*, (Poir.) Wedd.  
*Boehmeria malabarica*, Wedd.

#### **Nyctaginaceae**

*Boerhavia diffusa* L.

**Amaranthaceae**

*Cyathula prostrata* (L.) Bl.

*Allmania nodiflora*, R.Br.

*Aerra lanata*, Juss.

*Alternanthera triandra*.

**Polygonaceae**

*Polygonum barbatum* L.

*Polygonum chinense* L.

**Dilleniaceae**

*Dillenia pentagyna* Roxb..

**Dipterocarpaceae**

*Dipterocarpus bourdillonii* Brandis

*Dipterocarpus indicus* Bedd.

*Hopea glabra* Wt. et Arn.

*Hopea parviflora* Bedd.

*Vateria indica* L.

*Vateria macrocarpa* Gupta

**Guttiferae**

*Calophyllum apetalum* Willd.

*Calophyllum austroindicum* Kosterm.

*Calophyllum elatum* Bedd.

*Calophyllum inophyllum* L.

*Garcinia cambogia* (Gaertn.) Desr.

*Garcinia morella* (Gaertn.) Desr.

*Garcinia wightii* T. And.

*Mesua ferrea* L.

**Elaeocarpaceae**

*Elaeocarpus serratus* L.

*Elaeocarpus tectorius* (Lour.) Desr.

*Elaeocarpus tuberculatus* Roxb.

### **Tiliaceae**

*Grewia emarginata* Buch. Ham.

*Grewia gamblei* J.R. Drumm.

*Corchorus olitorius*, Linn.

*Grewia disperma*, Rottl.

*Grewia tilifolia*, Vahl.

### **Sterculiaceae**

*Helecteris isora* L.

*Leptonychia caudata* (Wall. ex G. Don) Burret

*Pterospermum suberifolium* (L.) Lamk.

*Sterculia guttata* Roxb.

*Pterygota alata*, R.Br.

*Sterculia urens*, Roxb.

*Sterculia villosa*, Roxb.

*Pteriospermum diversifolium*, Bl.

*Melochia corchorifolia*, Linn.

### **Bombacaceae**

*Bombax ceiba* (L.) DC.

*Cullenia exarillate* Robyns.

### **Malvaceae**

*Sida cordifolia* L.

*Sida rhombifolia* L.

*Sida acuta*, Burm.

*Autilon indicum*, G. Don.

*Urena lobata*, Linn.

*Hibiscus furcatus*, Roxb.

*Hibiscus subdarifa*

**Barringtoniaceae**

*Careya arborea* Roxb.

*Barringtonia acutangula*, Gaertn.

**Flacourtiaceae**

*Casuaria esculenta* Roxb.

*Flacourtia indica* (Burm. f.) Merr.

*Hydnocarpus alpina* Wt.

*Hydnocarpus pentandrus* (Ham.) Oken

*Flacourtia montana*, Grach.

**Passifloraceae**

*Passiflora foetida* L.

**Ancistrocladaceae**

*Ancistrocladus heyneanus* Wall. ex Grah.

**Begoniaceae**

*Begonia albo-coccinea* Hook.

*Begonia malabarica* Lamk.

**Tetramelaceae**

*Tetrameles nudiflora* R.Br. ex Benn.

**Cleomaceae**

*Cleome viscosa* L.

**Sapotaceae**

*Isonandra perrottiana* Wt.

*Madhuca longifolia* (Koen.) Mac Bride var. longifolia

*Madhuca longifolia* (Koen.) Mac Bride var. latifolia (Roxb.)

Cheval.

*Palaquium ellipticum* (Dalz.) Baill.

**Ebenaceae**

*Diospyros buxifolia* (Bl.) Hiern



*Diospyros candolleana* Wt.

*Diospyros ovalifolia* Wt.

*Diospyrus insignis*, Thw.

*Diospyrus microphyla*, Bedd.

### **Symplocaceae**

*Symplocos cochinchinensis* (Lour.) Moore

*Symplocos macrocarpa* Wt. ex C.B. Cl.

*Symplocos racemosa* Roxb.

### **Crassulaceae**

*Kalanchoe pinnata* (Lamk.) Pers.

### **Rosaceae**

*Rubus indicus* Thumb.

### **Chrysobalanaceae**

*Atuna travancorica* (Bedd.) Kosterm.

### **Mimosaceae**

*Acacia torta* (Roxb.) Craib

*Albizia amara* (Roxb.) Boiv. ssp. *amara* Brenan

*Albizia lebbeck* (L.) Willd.

*Albizia odoratissima* (L.f.) Benth.

*Mimosa pudica* L.

*Xylia xylocarpa* (Roxb.) Taub.

*Entada scandens*, Benth.

*Albizia procera*, Benth.

*Pithecolobium bijeminum*.

### **Caesalpiniaceae**

*Bauhinia purpurea* L.

*Bauhinia racemosa* Lamk.

*Cassia fistula* L.

*Cassia occidentalis* L.

*Humboldtia brunonis* Wall.  
*Humboldtia vahliana* Wt.  
*Peterolobium hexapetalum* (Roth) Sant.  
*Wagatea spicata*, Dalz.  
*Cassia tora*, Linn.  
*Cassia alata*, Linn.  
*Mezoneurum cucullatum*, W & A.  
*Caesalpinia mimosoides*, Lamk.

### **Papilionaceae**

*Abrus precatorius* L.  
*Butea parviflora* Roxb.  
*Crotalaria juncea* L.  
*Crotalaria striata*, DC  
*Crotalaria* spp.  
*Dalbergia benthamii* Prain  
*Dalbergia horrida* (Dennst.) Mabb.  
*Dalbergia latifolia* Roxb.  
*Dalbergia sissooides* Grah. ex Wt. et Arn.  
*Dalbergia volubilis* Roxb.  
*Desmodium herbaceum* Lindl.  
*Desmodium heterophyllum* (Willd.) DC.  
*Desmodium triangulare* (Retz.) Merr.  
*Desmodium triquetrum*, DC  
*Desmodium gangeticum*, DC  
*Desmodium latifolium*, DC  
*Desmodium triflorum*, (L) DC  
*Desmodiu motorium*, (Houtt) Mer.  
*Erythrina stricta* Roxb.  
*Ormosia travancorica* Bedd.

*Pongamia pinnata* (L.) Pierre

*Pterocarpus marsupium* Roxb.

*Tephrosia purpurea* (L.) Pers.

*Abrus pulchellus*, Wall.

*Derris uliginosa*, Benth.

*Derris scandens*, Benth.

*Millettia rubiginosa*, W & A.

*Tephrosia tinctoria*

*Pseudarthria viscida*, W & A

### **Podostemaceae**

*Polypleurum stylosum* (Wt.) J.B. Hill

*Willisia selaginoides* (Bedd.) Warm. ex Willis

### **Lythraceae**

*Ammannia baccifera* L.

*Lagerstroemia microcarpa* Wt.

*Lagerstroemia reginae* Roxb.

### **Myrtaceae**

*Syzygium caryophyllatum* (L.) Alston

*Syzygium cumini* (L.) Skeels

*Syzygium jambos* (L.) Alston

*Syzygium laetum* (Ham.) Gandhi

*Syzygium mundagam* (Bourd.) Chithra

*Syzygium occidentale* (Bourd.) Gandhi

### **Melastomataceae**

*Melastoma malabathricum* L.

*Memecylon heyneanum* Benth.

*Memecylon malabaricum* (C.B.Cl.) Cogn.

*Memecylon umbellatum* Burn.f.

*Osbeckia aspera* Bl.

*Osbeckia zeylanica* L.f.

*Sonerila brunonis* L.

*Sonerila elegans* Wt.

*Sonerila versicolor* Wt. var. axillaris Gamble

*Sonerila wallichii* Benn.

*Memecylon edule*, Roxb.

### **Combretaceae**

*Terminalia gella* Dalz.

*Terminalia paniculata* Roxb. ex Roth

*Terminalia bellerica*, Roxb.

*Terminalia catappa*, L.

*Terminalia arjuna*, W & A

*Terminalia tomentosa*, W & A.

### **Cornaceae**

*Mastixia arborea* (Wt.) Bedd.

*Mastixia arborea* (Wt.) Bedd. var. meziana (Wang.) Matthew

### **Santalaceae**

*Scleropyrum pentandrum* (Dennst.) Mabb.

### **Viscaceae**

*Viscum orientale* Willd.

### **Ioranthaceae**

*Dendrophthoe falcata* (L.f.) Etting

*Scurrula cordifolia* (Wall.) G. Don

*Helicanthus elasticus*, Desv.

*Macrosolen parasiticus*, (L) Danser.

### **Celastraceae**

*Euonymus dichotomus* Heyne ex Roxb.

*Lophopetalum wightianum* Arn.

**Icacinaceae**

*Gomphandra coriacea* Wt.

*Gomphandra tetrandra* (Wall. ex Roxb.) Sleum.

**Dichapetalaceae**

*Dichapetalum gelonoides* (Roxb.) Engler

**Euphorbiaceae**

*Agrostistachy indica* Dalz.

*Agrostistachys meeboldii* Pax et K. Hoffm.

*Antidesma bunius* (L.) Spreng.

*Antidesma menasu* Miq. ex Tul.

*Aporosa acuminata* Thw.

*Aporosa lindleyana* (Wt.) Baill.

*Buccaurea courtallensis* (Wt.) Muell.-Arg.

*Blackia calycina* Benth.

*Breynia rhamnoides* (Retz.) Muell.-Arg.

*Bridelia scandens* (Roxb.) Willd.

*Drypetes oblongifolia* (Bedd.) Airy Shaw.

*Embllica officinalis* Gaertn.

*Epiprinu mallotiformis* (Muell.-Arg.) Croizat.

*Glochidion ellipticum* Wt.

*Glochidion zeylanicum* (Gaertn.) Juss.

*Homonioia riparia* Lour.

*Kirganelia reticulata* (Poir.) Baill.

*Macaranga peltata* (Roxb.) Muell.-Arg.

*Mallotus philippensis* (Lamk.) Muell.-Arg.

*Securineqa leucopyrus* (Willd.) Muell.-Arg.

*Tragia involucrata* L.

*Antidesma acidum*,

*Bridelia retusa*, Spr.  
*Phyllanthus niruri*, Linn.  
*Euphorbia prostrata*, Aiton  
*Euphorbia hirta*, L  
*Euphorbia neriifolia*, (Linn)  
*Acalypha indica*, Linn  
*Jatropha curcas*, Linn  
*Micrococca mercurialis*, Benth.  
*Sebastiania chamaelea*, L.  
*Trewia polycarpa*, Benth.  
*Phyllanthus reticulatus*, Poiret.  
*Phyllanthus debilis*, Hookef  
*Mallotus tetracoccus*, (Kurz). Roxb.  
*Phyllanthus lawii*, Grah  
*Baliospermum axillare*, Blume.

#### **Rhamnaceae**

*Ziziphus oenoplia* (L.) Mill  
*Ziziphus xylopyrus* (Rex.) Willd.  
*Ziziphus rugosa*, Lamk.

#### **Leeaceae**

*Leea indica* (Burm.f.) Merr.  
*Leea sambucina*, Willd.

#### **Vitaceae**

*Cissus quadrangularis* L.  
*Cissus repens* Lamk.  
*Tetrestigma lanceolarium* (Roxb.) Planch.

#### **Staphyleaceae**

*Turpinia malabarica* Gamble  
*Turpinia nepalensis*, Wall.

### **Connaraceae**

*Connarus monocarpus* L.

*Connarus wightii* Hook.f.

### **Sapindaceae**

*Dimocarpus longan* Lour.

*Lepisanthes tetraphylla* (Vahl) Radlk.

*Otonophelium stipulaceum* (Bedd.) Radlk.

*Sapindus laurifolius* Vahl

*Schleichera oleosa* (Lour.) Oken

### **Burseraceae**

*Canarium strictum* Roxb.

### **Anacardiaceae**

*Holigarna arnottiana* Hook.f.

*Holigarna grahamii* (Wt.) Kurz

*Lannea coromandelica* (Houtt.) Merr.

*Mangifera indica* L.

*Nothopegia beddomei* Gamble

*Nothopegia travancorica* Bedd. ex Hook.f.

*Semecarpus anacardium* L.f.

*Spondias pinnata*, L.f., Kunz.

### **Rutaceae**

*Acronychia pedunculata* (L.) Miq.

*Glycosmis arborea* (Roxb.) DC.

*Ioddalia asiatica* (L.) Lamk.

*Zanthoxylum rhetsa* (Roxb.) DC.

*Evodia roxburghiana*, Benth.

*Toddalia asiatica*, Lamk.

*Clausena indica*, Oliver.

### **Meliaceae**

*Aglaiia barberi* Gamble  
*Aphanamixi polystachya* (Wall.) parker  
*Dysoxylum malabaricum* Bedd. ex Hiern  
*Toona ciliata* M. Roem.  
*Trichilia connarodites* (Wt. et Arn.) Bent.  
*Naragamia alata*, W & A  
*Sweitenia mahagoni*, L

### **Oxalidaceae**

*Biophytum sensitivum* (L.) DC.

### **Balsaminaceae**

*Impatiens chinensis* L.  
*Impatiens cordata* Wt.  
*Impatiens maculata* Wt.  
*Impatiens scapiflora* Heyne

### **Xanthophyllaceae**

*Xanthophyllum flavescens* Roxb.

### **Araliaceae**

*Schefflera venulosa* (Wt. et Arn.) Ham.  
*Schefflera stellata*, Harms.

### **Umbelliferae**

*Centella asiatica* (L.) Urb.  
*Hydrocotyle javanica* Thunb.

### **Loganiaceae**

*Strychnos nux-vomica* L.  
*Strychnos potatorum* L.f.  
*Strychnos cinnamomifolia*, Thw.

### **Potaliaceae**

*Fagraea ceilanica* Thunb.  
*Fagraea obovata*, Wall.



### **Apocynaceae**

- Alstonia scholaris* (L.) R.Br.  
*Chilocarpus malabaricus* Bedd.  
*Ervatamia divaricata* (L.) Burkill  
*Ichnocarpus frutescens* (L.) R.Br.  
*Rauwolfia serpentina*, (L) Benth, Ex Kunz  
*Holarrhena antidysentrica*, Wall.  
*Tabernaemontana dichotoma*,  
*Wrightia tinctoria*, (Roxb) R.Br.  
*Wrightia tomentosa*, R & S.

### **Solanaceae**

- Rauwolfia serpentina* Benth. ex Kurz  
*Solanum erianthum* D. Don  
*Solanum torvum* Sw.  
*Solanum indicum*, Linn.  
*Physalis minima*, Linn.

### **Boraginaceae**

- Cynoglossum zeylanicum* (Hornem.) Thumb. ex Lehm.  
*Heliotropium indicum*, Linn.

### **Ehretiaceae**

- Rotula aquatica* Lour.

### **Verbenaceae**

- Callicarpa tomentosa* (L.) Murr.  
*Clerodendrum viscosum* Vent.  
*Gmelina arborea* Roxb.  
*Lantana camara* L. var. aculeata Mold.  
*Premna tomentosa* Willd.  
*Tectona grandis* L.f.  
*Vitex altissima* L.f.

*Vitex negundo* L.f.

*Tectona grandis*, Linn.f.

### **Labiatae**

*Anisomeles malabarica* (L.) R. Br. ex Sims.

*Hyptis suaveolens* (L.) Poit.

*Gomphostemma keralensis* Vivek., Gopal. et Ansari

*Pogostemon paniculatus* (Willd.) Benth.

*Leucas aspera*, Spreng

### **Oleaceae**

*Chionanthus mala-elengi* (Dennst.) P.S. Green

*Jasminum malabaricum* Wt.

*Jasminum rottlerianum* Wall. ex DC.

*Olea dioica* Roxb.

### **Scropaulariaceae**

*Scoparia dulcis* L.

*Striga angustifolia* (Don) Saldanha

*Limnophylla conferta*, Benth.

*Limnophylla heterophylla*, Benth.

*Limnophylla repens*, (Roxb), Benth.

*Striga densiflora*, Benth.

*Torenia travencorica*, Gamble, n.

*Lindernia crustaceae*, L.

*Lindernia antipoda*, (L) Alston.

*Lindernia ciliata*, (Colsm) Pennel

*Striga lutea*, Lour.

### **Gesneriaceae**

*Aeschynanthus perrottetii* A.DC.

*Rhynchoglossum notonianum* (wild.) Burtt

*Rhynchotechum permolle* (Nees) Burtt

*Klugia notoniana*, Blue.

### **Acanthaceae**

*Gymnostachyum febrifugum* Benth.

*Gymnostachyum latifolium* (Dalz.) T. Anders

*Justicia betonica* L.

*Justicia wynaadensis* (Nees) T. Anders.

*Andrographis* sp's

*Andrographis paniculata*, Nees.

*Staurogyne zeylanica*, O.Kze.

*Lepidagathis hyalina*, Nees.

*Barlaria courtallica*, Nees.

*Echbolum viride*, Forslean.

*Phaulopsis imbricata*, Forskal

*Rhinacanthus communis*, L

*Asystasia gangetica*, T.And

*Jasticia simplex*, D.Don

*Peristrophe bicalyculate*

*Disteracanthus prostratus*, (Poiret) Nees.

*Eranthemum capense*, L.

*Rhinacanthus communis*, Nees.

*Rungia repens*, (L) Nees.

### **Campanulaceae**

*Lobelia nicotianaefolia* Roem. et schult var. *trichandra* Wt.

### **Rubiaceae**

*Agrostemma rostratum* Wall.

*Chassalia curviflora* (Wall.) craib var. *ophioxyloides* (wall.) Deb et

krishna

*Ixora arborea* Roxb. ex J.E. Sm.

*Ixora nigricans* R. Br.

*Ixora pavetta* Andrews  
*Mussaenda laxa* (Hook.f.) Hutch. ex Gamble  
*Ophiorrhiza eriantha* Wt.  
*Ophiorrhiza mungos* L.  
*Pavetta zeylanica* Gamble  
*Psychotria congesta* (Wt. ex Arn.) Hook.f.  
*Psychotria connata* Wall. ex Roxb.  
*Psychotria dalzellii* Hook.f.  
*Psychotria johnsonii* Hook.f.  
*Psychotria nigra* (Gaertn.) Alston  
*Psychotria nudiflora* Wt. et Arn.  
*Psychotria octosulcata* Talbot  
*Randia dumetorum* (Thumb.) Poir.  
*Wendlandia bicuspidata* Wt. et Arn.  
*Adina cordifolia*, (Roxb) Blume.  
*Mussaenda frondosa*, (L)  
*Borreria articularis*.  
*Geophila reniformis*.  
*Mytragyna parviflora* (Roxb) Kaim.  
*Oldenlandia biflora*, L  
*Oldenlandia herbaceae*, (L)  
*Oldenlandia nitida*, Gamble  
*Oldenlandia umbellata*, Linn.  
*Knoxia mollis*, R.Br. ex W & A.  
*Knoxia corymbosa*, Willd.  
*Nauclea missionis*, W & A  
*Hymenodyetyon excelsum*, Roxb.  
**Compositae**  
*Blainvillea acmella* (L.) Philioson

*Blumea lacera* (Burn.f.) DC.  
*Chromolaena odorata* (L.) King et Robinson  
*Elephantopus scaber* L.  
*Emilia sonchifolia* (L.) DC.  
*Mikania micrantha* H.B.K.  
*Mikania scandens*  
*Tridax procumbens* L.  
*Vernonia arborea* Ham.  
*Vernonia cinerea*, Less.  
*Vicoa indica* (L.) DC.  
*Eclipta alba*, (L), Mant.  
*Eupatorium odoratum*  
*Synedrella nodiflora*, Gaertn  
*Tridax procumbens* (L)  
*Vicoa indica*, (L). DC.  
*Ageratum conizoides*, (L)  
*Sphilanthes indica*  
*Blainvillea, romboidea*, Cass.

### **Commelinaceae**

*Aclisia secundiflora* (Bl.) Bakh.f.  
*Aneilema ovalifolium* (Wt.) Hook.f. ex C.B. Cl  
*Commelina benghalensis* L.  
*Commelina diffusa* Burm.f.  
*Commelina paludosa* Bl.  
*Commelina clavata*, Clarlce.  
*Commelina coelestis*  
*Amischophacolus axillaris*, L.  
*Murdania nudiflora*, L. Brenan.

### **Eriocaulaceae**

*Eriocaulon quinguanquale* L.

### **Cyperaceae**

*Bulbostylis barbata* (Rottb.) C.B. Cl.

*Cyperus exaltatus* Retz.

*Cyperus tenuispica* Steud.

*Fimbristylis lichotoma* (L.) Vahl

### **Gramineae**

*Centotheca latifolia* (Osbeck.) Trim.

*Chloris barbata* Sw.

*Coix lacryma-jobi* L.

*Cymbopogon caesius* (Hook. f. et Arn.) Stapf

*Cynodon dactylon* (L.) Pers.

*Digitaria ciliaris* (Retz.) Koen.

*Eragrostis uniloides* (Retz.) Nees ex Steud.

*Panicum repens* L.

### **Bambusaceae**

*Bambusa arundinacea* (Retz.) Roxb.

*Ochlandra travancorica* Benth. ex Gamble

### **Musaceae**

*Ensete superbum* (Roxb.) Cheesm.

### **Zingiberaceae**

*Alpinia malaccensis* (Burn. f.) Roxb.

*Amomum cannicarpum* (Vt.) Benth.

*Elettaria cardamomum* (L.) Marton

*Globba bulbifera*, Roxb.

*Curcuma amada*, Roxb.

*Curcuma psydomonatana*, Grah.

*Kaempferia rotunda*

*Zingiber zerumbet*, Sm.

*Alpinia carcarata*, Rose.

### **Costaceae**

*Costus speciosus* (Koenig) Smith

### **Marantaceae**

*Schumannianthus virgatus* (Roxb.) Rolfe

### **Palmae**

*Calamus thwaitesii* Becc.

*Caryota uren*, Linn.

*Calamus rheedii*, Griff.

*Calamus rotang*, Linn.

### **Pandanaceae**

*Pandanus odorotissimus*, Roxb.

*Pandanus thwaitesii*, Mart.

### **Pontederiaceae**

*Monochoria vaginalis* (Burm.f.) Persl.

### **Araceae**

*Pothos scandens* L.

*Rhaphidophora lacinata* (Burm.f.) Merr.

*Remusatia vivipara* (Lodd.) Schott

*Lagenandrea orata*, Thw.

*Arisaema* spp, Mart.

*Amorphophallus sylvaticus*, Kunth.

### **Hypoxidaceae**

*Curculigo orchoides* Gaertn.

*Molineria trichocarpa* (Wt.) Balakr.

### **Agavaceae**

*Dracaena terniflora* Roxb.

*Asparagus racemosus*, Willd.

*Gloriosa superba*, Linn.

### **Xyridaceae**

*Xyris capensis*.

### **Smilacaceae**

*Smilax zeylanica* L.

### **Dioscoreaceae**

*Dioscorea oppositifolia* L.

*Dioscorea pentaphylla* L.

*Dioscorea bulbifera*, L.

### **Orchidaceae**

*Oberonia verticillata* Wt.

*Oberonia iridifolia*, Lindl.

*Pholidotta pallida*, Lindl.

*Ephemerantha macrei*, Lind.

*Rhyncostylis retusa*, Bl.

*Dendrobium ovatum*, (Willd) Kuntz

*Dendrobium macrostachyum*, Lindl.

*Vanda testaceae*, Lindl.

*Acampe praemosum*, (Roxb) Blatt & Maccan

*Sirhookera lanceolata*, Wt. O. Kuntz



*Malaxis versicolour*, Lind. Abeywicker.  
*Nervilia aragona*, Goud.  
*Nervilia infundibulifolia*, Blatt & Maccan  
*Zeuxin longilabris*, Benth.  
*Gastrochilus*  
*Sarcanthus pauciflorus*, Wt.  
*Polystachya flavescens*, (Bl), J.J. Smith.  
*Bulbophyllum neilgherrense*, Wt.  
*Luisia zeylanica*, Lindle.  
*Luisia abrahami*, Valsala  
*Luisia evangelinae*, Blatt - Maccan  
*Eulophia culleni*, C. Fish  
*Eulophia* Sp's  
*Vanilla wightiana*, Lindl.  
*Vanilla fragrance*  
*Spathoglottis*  
*Lusia barchia*  
*Bulbophyllum fimbriatum* (Lindl.) Reichb.f.  
*Bulbophyllum fischeri* Seidenfaden  
*Bulbophyllum neilgherrense* Wt.  
*Cleisostoma tenerum* Hook.f.  
*Dendrobium barbatulum* Lindl.  
*Dendrobium herbaceum* Lindl.  
*Dendrobium macrostachyum* Lindl.

*Dendrobium ovatum* (Wild.) Kranz.  
*Luisia zeylanica* Lindl.  
*Luisia abrahami*, Vatsala.  
*Pholidota pallida* Lindl.  
*Podochilus malabaricus* Wt.  
*Sirhookeria latifolia* (Wt.) O. Ktze.  
*Terniola zeylanica* Tub.  
*Vanda tessellata* (Roxb.) Hook. ex G. Don

### **Convolvulaceae**

*Ipomaea paniculata* (Burm.f.)  
*Ipomaea vitifolia* (Burm.f.)  
*Ipomaea hederacea*. Jacq  
*Ipomea biloba*. Forsle  
*Ipomea turpenthum*  
*Ipomea batatas*, (L), Lam.  
*Argyreia whightiana*  
*Quamoclit pinnata*, Boj.  
*Cuscuta reflexa*, Roxb  
*Evolvulus alsinoides*, L  
*Merremia emarginata*

**Appendix III**  
**Butterflies recorded from the study area**

1. Southern Birdwing *Troides minos*
2. Malabar or Ceylon Rose *Pachliopta pandiyana*
3. Common Rose *Pachliopta aristolochiae*
4. Crimson Rose *Pachliopta hector*
5. Common Bluebottle *Graphium sarpedon*
6. Common Jay *Graphium doson*
7. Tailed Jay *Graphium agamemnon*
8. Spot Swordtail *Graphium nomius*
9. Five-Bar Swordtail *Graphium antiphates*
10. Common Mime *Papilio clytia*
11. Lime butterfly *Papilio demoleus*
12. Malabar Banded Swallowtail *Papilio liomedon*
13. Malabar Raven *Papilio dravidarum*
14. Red Helen *Papilio helenus*
15. Common Mormon *Papilio polytes*
16. Blue Mormon *Papilio polymnestor*
17. Paris Peacock *Papilio paris*
18. Malabar Banded Peacock *Papilio budha*
19. Common Banded Peacock *Papilio crino*
20. Common Emigrant *Catopsilia pomona*
21. Mottled Emigrant *Catopsilia pyrenthe*
22. Small Grass Yellow *Eurema brigitta*
23. Spotless Grass Yellow *Eurema laeta*
24. Common Grass Yellow *Eurema hecabe*
25. Three-spot Grass Yellow *Eurema blanda*
26. Common Jezevel *Delias eucharis*

27. Psyche *Leptosisa nina*
28. Pioneer or Caper White *Anaphaeis aurota*
29. Chocolate Albatross *Appias lyncida*
30. Common Albatross *Appias albina*
31. White Orange Tip *Ixias marianne*
32. Great Orange Tip *Hebomoia glaucippe*
33. Southern Duffer *Discophora lepida*
34. Travancore Evening Brown *Parantirrhoea marshallii*
35. Comon Evening Brown *Melanitis pedima*
36. Dark Evening Brown *Melantis pedima*
37. Common Palfly *Elymnias hypermenstra*
38. Bamboo Treebrown *Lethe europa*
39. Tamil Treebrown *Lethe drypetis*
40. Common Treebrown *Lethe rohria*
41. Common Bushbrown *Micalesis perseus*
42. Dark Branded Bushbrown *Micalesis mineus*.
43. Tamil Bushborwn *Micalesis subdita*
44. Gladeye Bushbrown *Micalesis patnia*
45. Redyeye Bushbrown *Micalesis adolphei*
46. Nigger *Orsotrianeu medus*
47. Tamil Catseye *Zipoetis satitis*
48. Common Threering *Ypthima asterope*
49. Whhite or Ceylon Fourring *Ypthima asterope*
50. Common Fourring *Ypthima huebneria*
51. Common Fivering *Ypthima baldus*
52. Common Nawab *Polyura athamas*
53. Bluen awab *Polyura schreiberia*
54. Tawny Raha *Charaxes bernardus*
55. Tawny coster *Acraea violae*
56. Tamil lacewing *Cethosia nietheri*
57. Cryiser *Vindula erota*
58. Rustic *Cupha erymanthi*

59. Common Leopard *Phalanta phalantha*
60. Tamil Yeoman *Cirrochroa thais*
61. Painted Courtesan *Euripus consimilis*
62. Common Sailor *Neptis hylas*
63. Sullied Sailor *Neptis soma*
64. Yellojack Sailor *Neptis viraja*
65. Common Lascar m*Pantoporia hordonia*
66. Colour Sergeant *Athyma nefte*
67. Staff Sergeant *Athyma selenophora*
68. common Sergeant *Athyma periu*
69. Commander *Limenitis procris*
70. Clipper *Parthenos sylvia*
71. Grey Count *Tanaecia lepidea*
72. Common Baron *Euthalia aconthea*
73. Redspot Duke *Dolpha evelina*
74. Angled Castor *Ariadne ariadne*
75. Common Castor *Ariadne merione*
76. Yellow Pansy *Junonia hierta*
77. Blue Pansy *Junonia orithya*
78. Lemon Pansy *Junonia lemonias*
79. Peacock Pansy *Junonia almana*
80. Grey Pansy *Junonia allites*
81. Chocolate Pansy *Junonia iphita*
82. Blue Admiral *Kabuska cabace*
83. Great Eggfly *Hypolimnas bolina*
84. Dabaid Eggfly *Hypolimnas misippus*
85. Autumnleaf *Doleschallia bisaltide*
86. South Indian Blue Oakleaf *Kallima hirsfueldi*
87. Glassy Tiger *Parantica aglea*
88. Nilgiri Tiger *Parantica nilgiriensis*
89. Blue Tiger *Tirumala limniace*
90. Dark Blue Tiger *Tirumala septentrionis*

91. Plain Tiger *Danaus chrysippus*
92. Striped or Common Tiger *Danaus genutia*
93. Common Indian Crow *Euploea core*
94. Plum Judy *Abisara echerius*
95. Common Pierrot *Castalius rosimon*
96. Angled pierrot *Caleta caleta*
97. Banded Blue Pierrot *Discolampa ethion*
98. Bright Babul Blue *Azanus ubaldus*
99. India Cupid *Everes lacturnus*
100. Common Hedge Blue *Actolepis puspa*
101. Quaker *Neopithecops zalmora*
102. Malayan *Magisba malaya*
103. Pale Grass Blue *Psuedozizeeria maha*
104. Gram Blue *Euchrysops cnejus*
105. Dark Cerulean *Janyides bochus*
106. Common Cerulean *Janyides celeno*
107. Red Pierrot *Takicada nyseus*
108. Tamil Oakblue *Arhopala bazaloides*
109. Aberrant Oakblue *Arhopala abseus*
110. Manytailed Oakblue *Thaduka multicaudata*
111. Common Acacia Blue *Surenda quercetorum*
112. Common Silverline *Spindasis vulcanus*
113. Yamfly *Loxura atymnus*
114. Common Imperial *Cheritra freja*
115. Monkey Puzzle *Rathinda amor*
116. Fluffy Tit *Zelus amasa*
117. Cornelian *Deudorix epijarbas*
118. Common Guava Blue *Deudorix isocrates*
119. Indian Red Flash *Rapala iarbus*
120. Common Banded Awl *Hasora chromus*
121. Common Awl *Hasora badra*

122. Immaculate/Suffused Snow Flat *Tagiades gana*
123. Water Snow Flat *Tagiades litigiosa*
124. Fulvous Pied Flat *Psuedocoladenia dan*
125. Chestnut/Banded Angle *Odionoptilum angulata*
126. Golden Angle *Odionoptilum ransonnetti*
127. Indian Grizzled/Indian Skipper *Spialia galba*
128. Bush Hopper *Ampittia dioscorides*
129. Chestnut Bob *Iambrix salsala*
130. Restricted Demon *Notocrypta curvifascia*
131. Giant Redeye *Gangara thyrsis*
132. Common Grass Dart *Taractrocera maevius*
133. Bevan's Swift *Borbo bevani*
134. Dark Branded Swift *Pelopidas agna*

## Appendix IV

Checklist of birds recorded from the study area by  
Dr. Salim Ali during the Travancore Bird Survey - 1933.

- Family : Phalacrocoracidae
1. Darter *Anhinga rufa*
- Family : Ardeidae
2. Pond Heron *Ardiola grayii*
  3. Green Bittern *Ixobrychus minutus*
- Family : Ciconiidae
5. Black Winged Kite *Elanus caeruleus*
  6. Brahminy Kite *Haliastur indus*
  7. Crested Hawk Eagle *Spizaetus cirrhatus cirrhatus*
  8. Crested Serpent Eagle *Spilornis cheel*
  9. Rufous Bellied Hawk Eagle *Hieraaetus kienerii*
- Family : Phasianidae
10. Grey Jungle Fowl *Gallus sonneratii*
  11. Red Spur Fowl *Gallus perdix spadicea*
- Family : Rallidae
12. White Breasted Water Hen *Amaurornis phoenicurus*
- Family : Charadriidae
13. Red Wattled Lapwing *Vanellus indicus*
  14. Common Sandpiper *Tringa hypoleucus*
- Family : Columbidae
15. Greyfronted Green Pigeon *Treron pompadori*
  16. Jerdon Imperial Pigeon *Ducula aenea*
  17. Imperial Pigeon *Ducula badia*
  18. Nilgiri Wood Pigeon *Columba elphinstonii*



19. Spotted Dove *Streptopelia chinensis*  
Family : Psittacidae
20. Blossom Headed Parakeet *Psittacula cyanocephala*
21. Blue Winged Parakeet *Psittacula columboides*
22. Indian Lorikeet *Loriculus vernalis*  
Family : Cuculidae
23. Common Hawk cuckoo *Cuculus varius*
24. Red winged crested cuckoo *Clamator coromandus*
25. Crow pheasant *Centropus sinensis*  
Family : Strigidae
26. Brown Fish owl *Bubo zeylonensis*
27. Spotted owlet *Athene brama*  
Family : Podargidae
28. Ceylon Frogmouth *Batrachostomus moniliger*  
Family : Caprimulgidae
29. Indian jungle nightjar *Caprimulgus indicus*  
Family : Apodidae
30. Brown throated Spinetail swift *Chaetura gigantea*
31. White rumped spinetail swift *Chaetura sylvatica*
32. Indian crested tree swift *Hemiprogne longipennis*  
Family : Trogonidae
33. Malabar trogon *Harpactes fasciatus*
34. Lesser pied kingfisher *Ceryle rudis*
35. Small blue kingfisher *Alcedo atthis*
36. Stork billed kingfisher *Pelargopsis capensis*
37. White breasted kingfisher *Halcyon smyrenensis*  
Family : Meropidae
38. Green bee eater *Merops orientalis*
39. Blue tailed bee eater *Merops philippinus*

40. Chestnut headed bee eater *Merops leschenaulti*  
Family : Coraciidae
41. Indian roller *Coracias Benghalensis*
42. Broad billed roller *Eurystomus orientalis*  
Family : Upupidae
43. Hoopoe *Upupa epops*  
Family : Bucerotidae
44. Malabar pied hornbill *Anthracoceros coronatus*
45. Great Indian Hornbill *Buceros bicornis*  
Family : Capitonidae
46. Large Green Barbet *Megalaima zeylanica*
47. Small Green Barbet *Magalaima viridis*
48. Crimson Throated Barbet *Magalaima rubricapilla*  
Family : Picidae
49. Little Scaly Bellied  
Green Woodpecker *Picus Myrmecophoneus*
50. Small Yellow Naped Woodpecker *Picus chlorolophus*
51. Indian Golden Backed  
Threetoed Woodpecker *Dinopium javanense*
52. Black Backed Woodpecker *Chrysocopaptes festivus*
53. Heart Spotted Woodpecker *Hemicircus canente*
54. Indian Great Black Woodpecker *Dryocopus javensis*  
Family : Pittidae
55. Indian Pitta *Pitta brachyura*  
Family : Hirundinidae
56. Red Rumped Swallow *Hirundo daurica*  
Family : Alaudidae
57. Bush Lark *Mirafra assamica*

- Family : Laniidae
58. Brown Shrike *Lanius cristatus*
- Family : Oriolidae
59. Golden Oriole *Oriolus oriolus*
60. Black Naped Oriole *Oriolus chinensis diffusus*
61. Black headed Oriole *Oriolus xanthornus*
- Family : Dicruridae
62. Ashy Drongo *Dicrurus leucophaeus*
63. Bronzed Drongo *Dicrurus aeneus*
64. Spangled Drongo *Dicrurus hottentottus*
65. Malabar Large Rackettail Drongo *Dicrurus paradiseus*
- Family : Sturnidae
66. Blyth's Myna *Sturnus blythi*
67. Common Myna *Acridotheres tristis*
68. Rosy Pastor *Sturnus roseus*
69. Jungle Myna *Acridotheres fuscus*
70. Grackle Myna *Gracula religiosa*
- Family : Corvidae
71. Jungle Crow *Corvus macrorhynchos*
72. House Crow *Corvus splendens*
73. Indian Treepie *Dendrocitta leucogastra*
74. Southern Treepie *Dendrocitta leucogastra*
- Family : Campephagidae
75. Malabar Woodshrike *Tephrodornis virgatus*
76. Common Woodshrike *Tephrodornis pondicerianus*
77. Black headed cuckoo shrike *Coracina malanoptera*
78. Large cuckoo shrike *Coracina novaehollandiae*
79. Orange Minivet *Pericrocotus flammeus*

Family : Irenidae

- 80. Common Lora *Aegithina tiphia*
- 81. Golden fronted chloropsis *Chloropsis aurifrons*
- 82. Gold mantled chloropsis *Chloropsis cochinchinensis*
- 83. Fairy Blue Bird *Irena puella*

Family : Pycnonotidae

- 84. Grey headed Bulbul *Pycnonotus priocephlus*
- 85. Rubythroated Bulbul *Pycnonotus melanciterus*
- 86. Redwhiskered Bulbul *Pycnonotus jocosus*
- 87. Redvented Bulbul *Pycnonotus cafer*
- 88. Yellow Browed Bulbul *Hypsipetes indicus*

Family : Muscicapidae

- 89. Spotted babbler *Pellorneum ruficeps*
- 90. Scimitar Babbler *Pomatorhinus horsfieldii*
- 91. Black headed Babbler *Rhopocichla atriceps*
- 92. Rufous Babbler *Turdoides subrufus*
- 93. Jungle Babbler *Turdoides striatus*
- 94. Quaker Babbler *Alcippe poiocephala*
- 95. Wyanad Laughing Thrush *Garrulax delesserti*

Sub Family : Muscicapinae

- 96. Blue Throated Flycatcher *Muscicapa rubeculoides*
- 97. Tickell's Blue Flycatcher *Muscicapa trickelliae*
- 98. Verditor Flycatcher *Muscicapa thalassina*
- 99. Brown Flycatcher *Muscicapa latirostris*
- 100. Brownbreasted Flycatcher *Muscicapa muttui muttui*
- 101. Black naped Blue Flycatcher *Hypothymi sazureu*
- 102. Paradise Flycatcher *Terpsiphone paradisi*

Sub Family : Sylviinae

- 103. Blyth's Reed Warbler *Acrocephalus dumetorum*

104. Paddyfield Warbler *Acrocephalus agricola*
105. Tailorbird *Orthotomus sutorius*
106. Coorg Wren Warbler *Prinia hodgsonii albogularis*
107. Thickbilled Warbler *Phragamaticola aedon aedon*
108. Green Willow Warbler
109. Nilgiri Wren Warbler *Prinia subflava franklinii*  
Sub Family : Turdinae
110. Bluethroat *Erithacus svecicus*
111. Magpie robin *Capsychus savlaris*
112. Indian Robin *Saxicoloides fulicata fulicata*
113. Blackcapped Blackbird *Turdus merula nigropileus*
114. Whitethroated ground Thrush *Zoothera citrina cyonotes*
115. Malabar Whistling Thrush *Myiophoneus horsfieldii*  
Family : Paridae
116. Grey Tit *Parus major*  
Family : Sittidae
117. Velvetfronted Nuthatch *Sitta frontalis*  
Family : Motacillidae
118. Malay Pipit *Anthus novaeselandiae malayensis*
119. Largepied Wagtail *Motacilla madeaspatensis*
120. Grey Wagtail *Motacilla cinerea*
121. Forest Wagtail *Motacilla indica*  
Family : Dicaeidae
122. Nilgiri Flowerpecker *Dicaeum trogonstrigma*  
Family : Nectariniidae
123. Loten's sunbird *Nectarinia lotenia*
124. Small sunbird *Nectarinia minima*
125. Purplerumped sunbird *Nectarinia zeylonica*
126. Little spiderhunter *Arachnothera longirostris*

Family : Ploceidae

- 127. Yellowthroated Sparrow *Petronia xanthocollis*
- 128. Blackheaded Munia *Lonchura malaca*
- 129. Whitebacked Munia *Lonchura striata*
- 130. Rufousbellied Munia *Lonchura kelaarti*

## Appendix V

### Amphibians recorded from the study area

1. *Bufo fergusonii* Boulenger,
2. *Bufo melanostictus* Schneider.
3. *Bufo microtympanum* Boulenger.
4. *Micrixalus nudis* Pillai,
5. *Rana aurantiaca* Boulenger.
6. *Indirana beddomini*
7. *Euphlyctis cyanophlyctus*
8. *Euphlyctis hexadactylus*
9. *Limnonectes keralensis*
10. *Limnonecte limnocharis*
12. *Indirana semipalmata*
13. *Hoplobatrachus ligerinus*

## Appendix VI

### Checklist of Mammals

1.	Bonnet macaque	<i>Macaca radiata</i>
2.	Slender loris	<i>Loris tardigradus</i>
3.	Tiger	<i>Panthera tigris</i>
4.	Panther or leopard	<i>Panthera pardus</i>
5.	Fishing cat	<i>Felis viverrina</i>
6.	Jungle cat	<i>Felis chaus</i>
7.	Small indian civet	<i>Viverricula indica</i>
8.	Common palm civet	<i>Paradoxurus hermaphroditus</i>
9.	Common mongoose	<i>Herpestes edwardsi</i>
10.	Stripednecked mongoose	<i>Herpestes vitticollis</i>
11.	Jackal	<i>Canis aureus</i>
12.	Indian wild dog	<i>Cuon alpinus</i>
13.	Sloth bear	<i>Melursus ursinus</i>
14.	Smooth indian otter	<i>Lutra perspicillata</i>
15.	Flying fox	<i>Pteropus gigantius</i>
16.	Painted bat	<i>Kervioula picta</i>
17.	Flying squirrel	<i>Petaurista petaurista</i>
18.	Giant squirrel	<i>Ratufa indica</i>
19.	Three striped palm squirrel	<i>Funambulus palmarum</i>
20.	Dusky striped palm squirrel	<i>Funambulus sublineatus</i>
21.	Indian porcupine	<i>Hystrix indica</i>
22.	Indian hare	<i>Lepus nigricollis</i>
23.	Indian elephant	<i>Elephas maximus</i>
24.	Sambar	<i>Cervus unicolour</i>
25.	Spotted deer	<i>Axis axis</i>
26.	Barking deer	<i>Muntiacus muntjack</i>
27.	Mouse deer	<i>Tragulus meminna</i>
28.	Indian wild boar	<i>Sus scrofa</i>
29.	Indian pangolin	<i>Manis crassicaudata</i>



## Appendix VII

### SYSTEMATIC POSITION OF TROGONS

CLASS- AVES

ORDER- TROGONIFORMS

FAMILY- TROGONIDAE: TROGONS

GENUS- *HARPACTES* SWAINSON

Key to the species

- A. Belly red in males, cinnamon in females.....*Harpactes fasciatus*
- B. Belly red in both sexes.....*Harpactes erythrocephalus*
- C. Belly geranium pink in males;  
    primrose yellow in females.....*Harpactes wardi*

#### ***HARPACTES FASCIATUS* (PENNANT): TROGON**

Key to subspecies

- Head and foreneck grey, not black or blackish.....*Harpactes fasciatus fasciatus*
- Head and neck black, not grey.....*Harpactes fasciatus malabaricus*
- Similar to last but paler, especially on back;  
white of wing barrings more extensive.....*Harpactes fasciatus legerli*

## APPENDIX-VIII

### Trogoniforms species list

1. Narina Trogon *Apaloderma narina*
2. Bare- cheeked Trogon *Apaloderma aequatoriale*
3. Bar tailed Trogon *Apaloderma vittatum*
4. Replendent Quetzal *Pharomachrus mocinno*
5. Crested Quetzal *Pharomachrus antisianus*
6. White-tipped Quetzal *Pharomachrusfulgidus*
7. Golden headed Quetzal *Pharomachrusauriceps*
8. Pavonine Quetzal *Pharomachrus pavoninus*
9. Eared Trogon *Euptilotis neoxinus*
10. Cuban Trogon *Priotelus temnurus*
11. Hispaniolan Trogon *Priotelus roseigaster*
12. Slaty- tailed Trogon *Trogon massena*
13. Black- tailed Trogon *Trogon melanurus*
14. Lattice- tailed Trogon *Trogon clathratus*
15. White- eyed Trogon *Trogon comptus*
16. Baird's Trogon *Trogon bairdii*
17. White- tailed Trogon *Trogon viridis*
18. Citroline Trogon *Trogon citreolus*
19. Black- headed Trogon *Trogon melanocephalus*
20. Mountain Trogon *Trogon mexicanus*
21. Elegant Trogon *Trogon elegans*

22. Collared Trogon *Trogon collaris*
23. Orange- bellied Trogon *Trogon aurantiiventris*
24. Masked Trogon *Trogon personatus*
25. Black- throated Trogon *Trogon rufus*
26. Surucua Trogon *Trogon surrucura*
27. Blue crowned Trogon *Trogon curucui*
28. Violaceous Trogon *Trogon violaceus*
29. Blue- tailed Trogon *Harpactes reinwardtii*
30. Malabar Trogon *Harpactes fasciatus*
31. Red- naped Trogon *Harpactes kasumba*
32. Diard's Trogon *Harpactes diardii*
33. Philippine Trogon *Harpactes ardens*
34. Whitehead's Trogon *Harpactes whiteheadi*
35. Cinnamon- rumped Trogon *Harpactes duvaucelii*
36. Orange- breasted Trogon *Harpactes oreskios*
37. Red- headed Trogon *Harpactes erythrocephalus*
38. Ward's Trogon *Harpactes wardi*