

# Field Assessments

Results of the field assessments pertaining to flora and fauna are presented in the following sections of the report:

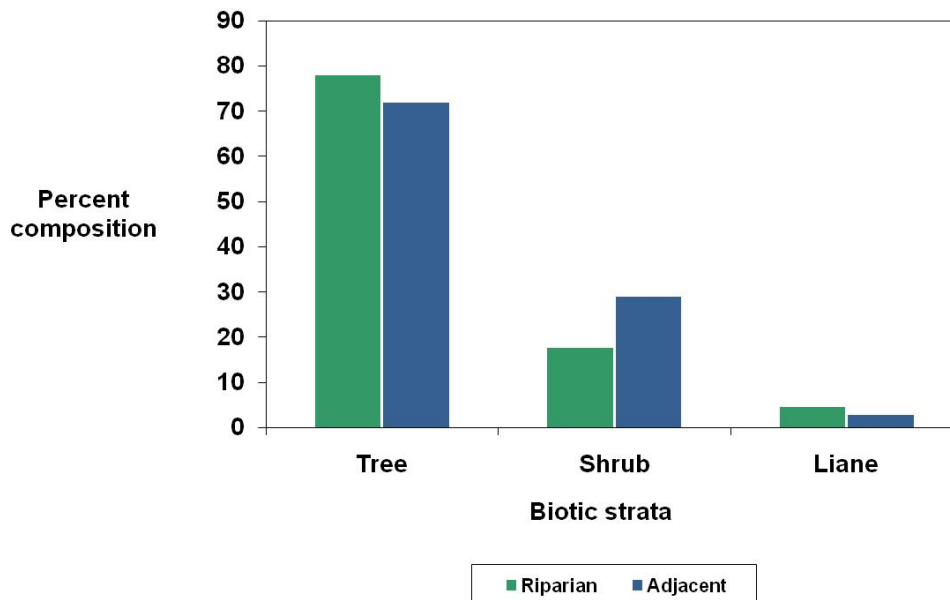
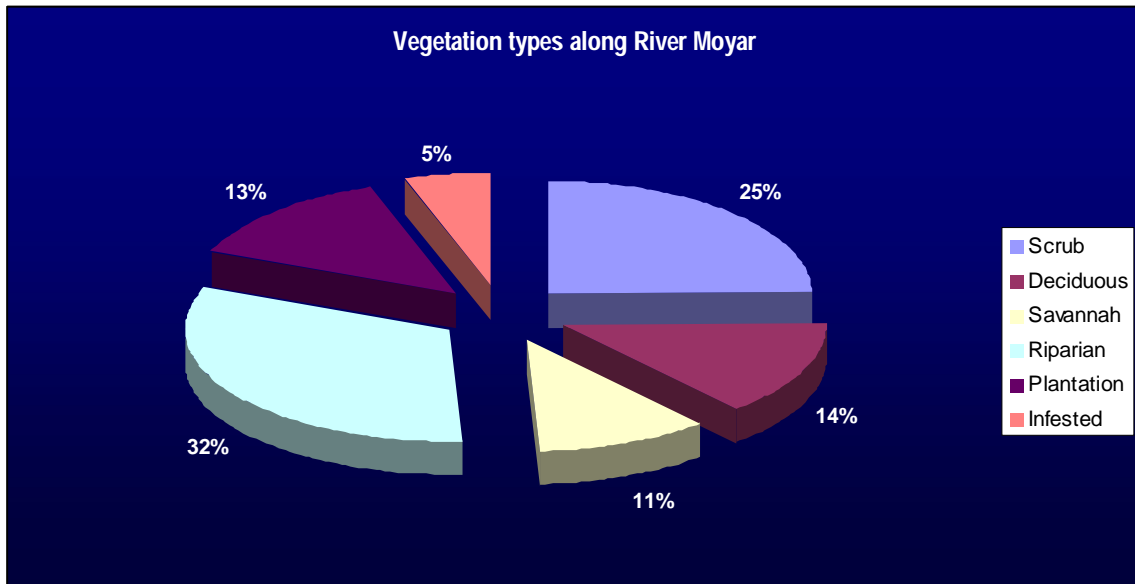
<b>Table No. 1 List of Riparian plants found along River Moyar</b>				
<b>S.No.</b>	<b>Family</b>	<b>Species</b>	<b>Habit</b>	<b>Nativity</b>
1	Combretaceae	<i>Terminalia cuneata</i> Roxb.	Tree	Native
2	Fabaceae	<i>Pongamia pinnata</i> (L.) Pierre	Tree	Native
3	Myrtaceae	<i>Syzygium cumini</i> (L.) Skeels	Tree	Native
4	Ebenaceae	<i>Diospyros malabarica</i> (Desr.) Kostel.	Tree	Native
5	Euphorbiaceae	<i>Homonoia riparia</i> Lour.	Shrub	Native
6	Sapotaceae	<i>Madhuca neriifolia</i> (Moon) H.J. Lam.	Tree	Native
7	Euphorbiaceae	<i>Trewia nudiflora</i> L.	Tree	Native
8	Anacardiaceae	<i>Mangifera indica</i> L.	Tree	Native
9	Melastomataceae	<i>Memecylon umbellatum</i> Burm.	Tree	Native
10	Poaceae	<i>Bambusa bambos</i> Voss	Tree	Native
11	Rubiaceae	<i>Ixora pavetta</i> Andr.	Tree	Native
12	Lythraceae	<i>Lagerstroemia microcarpa</i> Wight	Tree	Native
13	Meliaceae	<i>Azadirachta indica</i> A. Juss.	Tree	Burma
14	Caesalpinaceae	<i>Bauhinia racemosa</i> Lam.	Tree	Native
15	Sapindaceae	<i>Schleichera oleosa</i> (Lour.) Oken	Tree	Native
16	Rubiaceae	<i>Canthium coromandelicum</i> (Burm. F.) Alston	Shrub	Native
17	Meliaceae	<i>Aglaia elaeagnoidea</i> (Juss.) Benth.	Tree	Native
18	Celastraceae	<i>Pleurostyliya opposita</i> (Wall.) Alston	Tree	Native
19	Celastraceae	<i>Cassine glauca</i> (Rottb.) Kuntze	Tree	Native
		<i>Stereospermum colais</i> (Buch.-Ham. ex Dillw.) Mabb.	Tree	Native
20	Bignoniaceae		Tree	Native
21	Rhamnaceae	<i>Ziziphus mauritiana</i> Lam.	Tree	Native
22	Salicaceae	<i>Salix tetrasperma</i> Roxb.	Tree	Native
23	Loganiaceae	<i>Strychnos nux-vomica</i> L.	Tree	Native
24	Rubiaceae	<i>Pavetta indica</i> L. ex K. Schum.	Shrub	Native
25	Verbenaceae	<i>Vitex leucoxydon</i> L.f.	Tree	Native
26	Fabaceae	<i>Dalbergia latifolia</i> Roxb.	Tree	Native
				Tropical
27	Solanaceae	<i>Datura sanguinea</i> Ruiz & Pavon	Shrub	America
28	Rubiaceae	<i>Mitragyna parvifolia</i> (Roxb.) Korth.	Tree	Native
29	Euphorbiaceae	<i>Phyllanthus polyphyllus</i> Willd.	Tree	Native
30	Verbenaceae	<i>Vitex altissima</i> L.f.	Tree	Native
31	Euphorbiaceae	<i>Drypetes roxburghii</i> (Wall.) Hurusawa	Tree	Native
32	Caprifoliaceae	<i>Viburnum punctatum</i> Buch. - Ham. ex D. Don	Liane	Native
33	Tiliaceae	<i>Grewia tiliifolia</i> Vahl.	Tree	Native
				Tropical
34	Mimosaceae	<i>Prosopis juliflora</i> (Sw.) Dc.	Tree	America

S.No.	Family	Species	Habit	Nativity
35	Myrtaceae	<i>Psidium guajava</i> L.	Tree	Native
36	Rhamnaceae	<i>Ziziphus oenoplia</i> (L.) Mill.	Liane	Native
37	Combretaceae	<i>Terminalia elliptica</i> Willd.	Tree	Native
38	Boraginaceae	<i>Cordia monoica</i> Roxb.	Tree	Native
39	Rutaceae	<i>Glycosmis mauritiana</i> (Lam.) Tanaka	Shrub	Native Tropical
40	Caesalpiaceae	<i>Tamarindus indica</i> L.	Tree	Africa
41	Ulmaceae	<i>Celtis timorensis</i> Spanoghe	Tree	Native
42	Melastomataceae	<i>Memecylon grande</i> Retz.	Tree	Native
43	Rutaceae	<i>Atalantia monophylla</i> (L.) Correa	Tree	Native Tropical
44	Euphorbiaceae	<i>Jatropha curcas</i> L.	Shrub	America
45	Caesalpiaceae	<i>Cassia fistula</i> L.	Tree	Native
46	Rubiaceae	<i>Psydrax dicoccos</i> Gaertn.	Tree	Native
47	Oleaceae	<i>Olea dioica</i> Roxb.	Tree	Native
48	Rutaceae	<i>Pleiospermium alatum</i> Swingle	Tree	Native
49	Euphorbiaceae	<i>Bischofia javanica</i> Blume	Tree	Native
50	Moraceae	<i>Ficus microcarpa</i> L.f.	Tree	Native
51	Sapotaceae	<i>Mimusops elengi</i> L.	Tree	Native
52	Meliaceae	<i>Cipadessa baccifera</i> (Roth) Miq.	Tree	Native
53	Mimosaceae	<i>Entada pursaetha</i> DC.	Liane	Native Tropical
54	Verbenaceae	<i>Lantana camara</i> L.	Shrub	America
55	Tiliaceae	<i>Grewia serrulata</i> DC.	Tree	Native
56	Burseraceae	<i>Garuga pinnata</i> Roxb.	Tree	Native
57	Verbenaceae	<i>Premna latifolia</i> Rozb. var. <i>latifolia</i>	Tree	Native
58	Bignoniaceae	<i>Radermachera xylocarpa</i> (Roxb.) K.Schum.	Tree	Native
59	Euphorbiaceae	<i>Phyllanthus emblica</i> L.	Tree	Native
60	Dipterocarpaceae	<i>Shorea roxburghii</i> G. Don.	Tree	Native
61	Moraceae	<i>Ficus hispida</i> L.f.	Tree	Native Tropical
62	Caesalpiaceae	<i>Cassia spectabilis</i> DC.	Tree	America
63	Salvadoraceae	<i>Salvadora persica</i> L.	Tree	Native
64	Euphorbiaceae	<i>Aporosa acuminata</i> Thw.	Tree	Native
65	Rubiaceae	<i>Catunaregam spinosa</i> (Thunb.) Tirvengadam	Tree	Native
66	Loganiaceae	<i>Strychnos potatorum</i> L.	Tree	Native
67	Combretaceae	<i>Combretum albidum</i> G. Don	Liane	Native
68	Fabaceae	<i>Dalbergia paniculata</i> Roxb.	Tree	Native
69	Ebenaceae	<i>Diospyros montana</i> Roxb.	Tree	Native
70	Rhamnaceae	<i>Ziziphus xylopyrus</i> (Retz.) Willd.	Tree	Native
71	Sapindaceae	<i>Sapindus emarginatus</i> Vahl	Tree	Native Tropical
72	Caesalpiaceae	<i>Senna occidentalis</i> (L.) Link	Shrub	America
73	Euphorbiaceae	<i>Breynia vitis-idaea</i> (Burm.f.) Fischer	Shrub	Native
74	Meliaceae	<i>Walsura trifolia</i> (A. Juss.) Harms	Tree	Native

S.No.	Family	Species	Habit	Nativity
75	Erythroxylaceae	<b>Erythroxylum monogynum</b> Roxb.	Tree	Native
76	Sapindaceae	<b>Filicium decipiens</b> (Wight & Arn.) Thw.	Tree	Native
77	Verbenaceae	<b>Tectona grandis</b> L.f.	Tree	Native
78	Combretaceae	<b>Anogeissus latifolia</b> (Roxb. Ex DC.) Wall	Tree	Native
79	Caesalpiaceae	<b>Senna didymobotrya</b> (Fresn.) Irwin & Barneby	Shrub	Non native
80	Smilacaceae	<b>Smilax zeylanica</b> L.	Shrub	Native
81	Rutaceae	<b>Chloroxylon swietenia</b> DC.	Tree	Native
82	Boraginaceae	<b>Cordia obliqua</b> Willd.	Tree	Native
83	Sterculiaceae	<b>Helicteres isora</b> L.	Shrub	Native
84	Hernandiaceae	<b>Gyrocarpus asiaticus</b> Willd.	Tree	Native
85	Combretaceae	<b>Terminalia bellirica</b> (Gaertn.) Roxb.	Tree	Native
86	Apocynaceae	<b>Carissa carandas</b> L.	Shrub	Native
87	Celastraceae	<b>Maytenus heyneana</b> (Roth) Raju & Babu	Shrub	Native
88	Simaroubaceae	<b>Ailanthus excelsa</b> Roxb.	Tree	Native
89	Euphorbiaceae	<b>Phyllanthus reticulatus</b> Poir.	Shrub	Native
90	Rubiaceae	<b>Psilanthus wightianus</b> (Wight & Arn.) J. Leroy	Shrub	Native
91	Myrtaceae	<b>Syzygium tamilnadensis</b> Rathakr. & Chithra	Tree	Native
92	Mimosaceae	<b>Albizia lebbek</b> (L.) Willd.	Tree	Native
				Tropical
93	Bixaceae	<b>Bixa orellana</b> L.	Tree	America
94	Euphorbiaceae	<b>Glochidion zeylanicum</b> (Gaertn.) Juss.	Tree	Native
95	Ulmaceae	<b>Trema orientalis</b> (L.) Blume	Tree	Native
96	Moraceae	<b>Ficus benjamina</b> L.	Tree	Malaysian
97	Myrsinaceae	<b>Ardisia solanacea</b> Roxb.	Tree	Native
98	Bignoniaceae	<b>Dolichandrone atrovirens</b> Sprague	Tree	Native
99	Moraceae	<b>Ficus benghalensis</b> L.	Tree	Native
				Tropical
100	Euphorbiaceae	<b>Ricinus communis</b> L.	Shrub	America
101	Moraceae	<b>Ficus tsjahela</b> Burm.f.	Tree	Native
102	Fabaceae	<b>Derris scandens</b> (Roxb.) Benth	Liane	Native
103	Meliaceae	<b>Swietenia mahagoni</b> (L.) Jacq.	Tree	Native
104	Mimosaceae	<b>Albizia amara</b> (Roxb.) Boivin	Tree	Native
105	Burseraceae	<b>Commiphora caudata</b> (Wight & Arn.) Engler	Tree	Native
				South East
106	Caesalpiaceae	<b>Delonix regia</b> (Boj. ex Hook) Rafin.	Tree	Asia
107	Ebenaceae	<b>Diospyros ferrea</b> (Willd.) Bakh.	Shrub	Native
108	Moraceae	<b>Ficus mollis</b> Vahl	Tree	Native
109	Euphorbiaceae	<b>Givotia rottleriformis</b> Griff.	Tree	Native
110	Tiliaceae	<b>Grewia hirsuta</b> Vahl.	Shrub	Native
111	Olcaceae	<b>Olx scandens</b> Roxb.	Liane	Native
112	Euphorbiaceae	<b>Bridelia crenulata</b> Roxb.	Tree	Native
113	Poaceae	<b>Dendrocalamus strictus</b> (Roxb.) Nees	Shrub	Native
114	Fabaceae	<b>Erythrina variegata</b> L.	Tree	Native
115	Moringaceae	<b>Moringa concanensis</b> Nimmo ex Gibs.	Tree	Native
116	Rubiaceae	<b>Wendlandia thyrsoides</b> (Schultes) Steud.	Shrub	Native
117	Rhamnaceae	<b>Ziziphus glabrata</b> Heyne ex Roth	Tree	Native

S.No.	Family	Species	Habit	Nativity
118	Mimosaceae	<i>Acacia leucophloea</i> (Roxb.) Willd.	Tree	Native
119	Alangiaceae	<i>Alangium salvifolium</i> (L.f.) Wang.	Tree	Native
120	Mimosaceae	<i>Albizia saman</i> (Jacq.) F.v. Muell.	Tree	Tropical America
121	Bignoniaceae	<i>Dolichandrone arcuata</i> (Wight) Clarke	Tree	Native
122	Bignoniaceae	<i>Dolichandrone falcata</i> (Wall.ex DC.) Seem.	Tree	Native
123	Moraceae	<i>Ficus racemosa</i> L.	Tree	Native
124	Flacourtiaceae	<i>Flacourtia ramontchi</i> L' Hér	Tree	Native
125	Lythraceae	<i>Lawsonia inermis</i> L.	Shrub	Native
126	Rubiaceae	<i>Morinda pubescens</i> J.E. Smith	Tree	Native
127	Pandanaceae	<i>Pandanus odoratissimus</i> L.f.	Shrub	Native
128	Euphorbiaceae	<i>Phyllanthus indofischeri</i> Bennet	Tree	Native
129	Anacardiaceae	<i>Spondias pinnata</i> (L.f.) Kurz	Tree	Native
130	Apocynaceae	<i>Wrightia arborea</i> (Dennst.) Mabberley	Tree	Native
131	Apocynaceae	<i>Wrightia tinctoria</i> (Roxb.)	Tree	Native

**Fig 1: Percent occurrence of the major vegetation types along River Moyar / within the Project Landscape of 180 sq km. Also Life form composition of the flora in the landscape**



**Table 2. Direct sightings of animals recorded in river transect walk**

S.No	Name of the Species	# sightings	# individuals	Mean group size	Encounter Rate/ km
1	Chital	9	110	12.2	2.39
2	Sambar	3	6	2	0.13
3	Balck Buck	2	12	6	0.26
4	Elephant	3	11	3.7	0.24
5	Gaur	3	8	2.7	0.17
6	Feral Buffalo	4	37	9.25	0.81
7	Bonnet Macaque	12	86	7.17	1.87
8	Common Langur	13	159	12.23	3.46
9	Marsh Crocodile	10	14	1.4	0.30
10	Monitor Lizard	3	3	1	0.07
11	Wildboar	2	3	1.5	0.07
12	Malabar Gaint squirrel	6	7	1.17	0.15
13	Otter	1	2	2	0.04
14	Python	1	1	1	0.02

**Table.3. Indirect sightings of animals recorded in river transect walk**

SNo	Name of the Species	Indirect Evidence	Encounter Rate/ km	%Encounter rate
1	Chital	70	1.5	23.8
2	Sambar	26	0.6	8.8
3	Balck Buck	2	0.0	0.7
4	Elephant	101	2.2	34.4
5	Gaur	5	0.1	1.7
6	Blacknapped Hare	3	0.1	1.0
7	Feral Buffalo	12	0.3	4.1
8	Sloth Bear	10	0.2	3.4
9	Tiger	7	0.2	2.4
10	Leopard	5	0.1	1.7
11	Porcupine	17	0.4	5.8
12	Wild dog	4	0.1	1.4
13	Hyaena	2	0.0	0.7
14	Bonnet Macaque	3	0.1	1.0
15	Wild Boar	6	0.1	2.0
16	Otter	6	0.1	2.0
17	Crocodile	14	0.3	4.8
18	Monitor Lizard	1	0.0	0.3

**Table.4. Direct sightings of animals recorded in 1km (19) parallel transect walk**

SNo	Name of the Species	# sightings	# individuals	Mean group size	Encounter Rate/ km
1	Chital	8	218	27.3	11.5
2	Sambar	4	10	2.5	0.5
3	Black Buck	4	19	4.75	1.0
4	Gaur	4	8	2	0.4
5	Blacknapped Hare	2	2	1	0.1
6	Feral Buffalo	3	4	1.3	0.2
7	Sloth Bear	1	2	2	0.1
8	Bonnet Macaque	5	39	7.8	2.1
9	Common Langur	1	2	2	0.1

**Table.5. Indirect sightings of animals recorded in 1km (19) parallel transect walk**

SNo	Name of the Species	Indirect Evidence	Encounter Rate/ km	% Encounter rate
1	Chital	148	7.8	28.5
2	Sambar	84	4.4	16.2
3	Black Buck	77	4.1	14.8
4	Elephant	90	4.7	17.3
5	Gaur	11	0.6	2.1
6	Blacknapped Hare	54	2.8	10.4
7	Feral Buffalo	7	0.4	1.3
8	Sloth Bear	8	0.4	1.5
9	Tiger	6	0.3	1.2
10	Leopard	3	0.2	0.6
11	Porcupine	21	1.1	4.0
12	Wild dog	5	0.3	1.0
13	Hyaena	3	0.2	0.6
14	Bonnet Macaque	3	0.2	0.6

**Table 6 Annotated List of Fishes Identified from the Bhavani-Moyar and Bhavani Sagar Riparian Ecosystem**

	Species	Source of information					CEPF Project <sup>8</sup>
		Mukherji <sup>2</sup>	Srinivasan & Ganesan <sup>3</sup>	Rajan <sup>4</sup>	Menon <sup>5</sup>	Yazdani et al <sup>6</sup>	
1.	<i>Amblypharyngodon melettinus</i>			+			
2.	<i>Anguilla bengalensis</i> *		+	+			+
3.	<i>Aorichthys aor</i>		+				
4.	<i>Aorichthys seenghala</i>		+				+
5.	<i>Barbodes bovanicus</i>				+	+	
6.	<i>Barbodes carnaticus</i>	+	+	+	+	+	+
7.	<i>Barbodes jerdoni</i>			+		+	+
8.	<i>Barbodes sarana</i>		+	+		+	+
9.	<i>Barilius bendelisis</i>			+		+	+
10.	<i>Barilius gatensis</i>	+		+	+	+	+
11.	<i>Catla catla</i> <sup>@</sup>		+				+
12.	<i>Channa gachua</i>		+	+	+	+	
13.	<i>Channa marulius</i> *		+				+
14.	<i>Channa punctatus</i>		+			+	
15.	<i>Channa striatus</i>		+				
16.	<i>Chela cachius</i>			+	+	+	
17.	<i>Chela laubuca</i>			+			
18.	<i>Cirrhinus cirrhosus</i> **		+				+
19.	<i>Cirrhinus mrigala</i> <sup>@1</sup>		+				+
20.	<i>Cirrhinus reba</i>		+	+		+	
21.	<i>Clarias gariepinus</i> <sup>@1</sup>						+
22.	<i>Cyprinion brevidorsalis</i>	+		+	+		+
23.	<i>Cyprinion nashii</i>	+		+	+	+	+
24.	<i>Cyprinus carpio</i> <sup>@1</sup>					+	+
25.	<i>Danio aequipinnatus</i>	+		+		+	+
26.	<i>Esomus thermoicos</i>				+	+	
27.	<i>Esomus barbatus</i>			+			
28.	<i>Etroplus maculatus</i>					+	+
29.	<i>Etroplus suratensis</i> <sup>@1</sup>					+	+
30.	<i>Garra gotyla stenorhynchus</i>			+	+	+	+
31.	<i>Garra maclellandi</i>			+	+	+	+
32.	<i>Garra mullaya</i>		+	+	+	+	+
33.	<i>Glossogobius giurus</i>			+		+	+
34.	<i>Glyptothorax annandalei</i>				+	+	
35.	<i>Glyptothorax madraspatnam</i>			+	+	+	
36.	<i>Hypselobarbus curmuca</i>			+	+		

	Species	Source of information					
		Mukherji <sup>2</sup>	Srinivasan & Ganesan <sup>3</sup>	Rajan <sup>4</sup>	Menon <sup>5</sup>	Yazdani et al <sup>6</sup>	CEPF Project <sup>8</sup>
37.	<i>Hypselobarbus dobsoni</i>			+	+		
38.	<i>Hypselobarbus dubius</i>		+	+	+	+	+
39.	<i>Hypselobarbus micropogon</i>	+		+	+		+
40.	<i>Labeo ariza*</i>			+	+	+	+
41.	<i>Labeo bata</i>					+	
42.	<i>Labeo boga</i>		+				+
43.	<i>Labeo boggut(?)*</i>						+
44.	<i>Labeo calbasu</i>		+				+
45.	<i>Labeo fimbriatus</i>		+				+
46.	<i>Labeo kontius</i>		+	+	+	+	+
47.	<i>Labeo rohita</i> <sup>@1</sup>						+
48.	<i>Lepidocephalus thermalis</i>			+		+	
49.	<i>Macrogathus aral</i>		+				
50.	<i>Mastacembelus armatus</i>		+	+		+	+
51.	<i>Mystus cavasius</i>			+		+	+
52.	<i>Mystus malabaricus</i>			+			
53.	<i>Mystus punctatus**</i>	+	+	+	+	+	+
54.	<i>Mystus vittatus</i>		+	+			
55.	<i>Nemacheilus denisonii**</i>			+	+	+	+
56.	<i>Nemacheilus guentheri</i>			+			
57.	<i>Nemacheilus monilis</i>			+	+	+	
58.	<i>Nemacheilus pulchellus</i>				+		
59.	<i>Neolissocheilus wynaadensis</i>		+			+	
60.	<i>Notopterus notopterus</i>		+			+	
61.	<i>Ompok bimaculatus</i>	+	+	+		+	+
62.	<i>Oreochromis mossambicus</i> <sup>@1</sup>					+	+
63.	<i>Osteobrama neilli</i>				+	+	
64.	<i>Pangasius pangasius</i>		+		+		
65.	<i>Puntius amphibius</i>			+		+	
66.	<i>Puntius arulius</i>	+			+	+	
67.	<i>Puntius assimilis</i>						+
68.	<i>Puntius bimaculatus</i>						+
69.	<i>Puntius chola</i>			+		+	
70.	<i>Puntius conchonus</i>					+	+
71.	<i>Puntius dorsalis</i>			+		+	+
72.	<i>Puntius filamentosus</i>			+		+	+
73.	<i>Puntius mahecola</i>					+	
74.	<i>Puntius melanampyx</i>			+			+
75.	<i>Puntius melanostigma</i>				+	+	+
76.	<i>Puntius mudumalaiensis</i>					+	
77.	<i>Puntius parrah</i>					+	
78.	<i>Puntius sophore</i>		+	+		+	
79.	<i>Puntius ticto</i>		+	+		+	
80.	<i>Puntius vittatus</i>						+



	Species	Source of information					
		Mukherji <sup>2</sup>	Srinivasan & Ganesan <sup>3</sup>	Rajan <sup>4</sup>	Menon <sup>5</sup>	Yazdani et al <sup>6</sup>	CEPF Project <sup>8</sup>
81.	<i>Rasbora daniconius</i>			+	+	+	+
82.	<i>Salmostoma acinaces</i>		+	+	+	+	
83.	<i>Salmostoma clupeioides</i>		+	+	+		+
84.	<i>Salmostoma untrahi</i>					+	
85.	<i>Schismatorhynchus nukta</i> <sup>7</sup>						+
86.	<i>Silonia childreni</i>		+				
87.	<i>Silurus wynaadensis</i>			+			
88.	<i>Tor khudree</i> <sup>*#</sup>		+	+	+	+	+
89.	<i>Wallago attu</i>		+				
90.	<i>Xenentodon cancilla</i>		+			+	+
	<b>Total</b>	<b>9</b>	<b>34</b>	<b>48</b>	<b>32</b>	<b>54</b>	<b>50</b>

\*reported by local fishermen as occurring at present, hence included

\*\*photographed by N Muthu Karthick and C Arivazhagan in Mudumalai while tribal people were collecting for food

@ introduced/cultured

1 introduced fish not reported in 1955 (see Srinivasan and Ganesan, 1955)

<sup>2</sup> Mukherji D D (1937) On a small collection of fish from the Bhavani river (S. India) *JBNHS* 35: 162-171

<sup>3</sup>R Srinivasan and R Ganesan (1955) Contributions from the freshwater biological research station Bhavanisagar, Madras State No 1

<sup>4</sup>Rajan, S (1955) Notes on a collection of fish from the headwaters of Bhavani river, south India. *JBNHS* 53: 44-48& Rajan, S (1963) Ecology of the fishes of rivers Pykara and Moyar (Nilgiris), S. India. *Proc. Ind. Acad. Sci.* 58 (B): 291-323

<sup>5</sup>Menon, A G K (1999) *Checklist – Freshwater Fishes of India*, ZSI/Occasional Paper No 175

<sup>6</sup>Yazdani, G M, Rema Devi, K, Raghunathan, M B and Singh, F D (2001) Fauna of Conservation Areas, Series 11: Fauna of Nilgiri Biosphere Reserve. Zoological Survey of India, pp207-224; this list is based on published information and 25 surveys in and around the Nilgiri Biosphere Reserve; only those specifically mentioned as Bhavani and/or Moyar Rivers are included

<sup>7</sup>Manimekalan and F D Singh (SACON) first reported this species in the Moyar river

<sup>8</sup>Team: R J Ranjit Daniels, C Chenna Krishnan, N Muthu Karthick, K Ramasamy (Tracker), L Selvam (Fisherman), Kumar (Driver-cum-fisherman), Mahesh (Forest Guard), Das (Forest Watcher); Fish reported/seen during the field trip to Bhavani Sagar and Moyar River in February (8-11) 2011 and April (10-11) 2011

#the specific status of *Tor moyarensis* remains uncertain although A J T Johnsingh and Ragnath (2010; 'Lure of the Wild', *Frontline* 27(5)) treat *bel-meen* (*Velimeen*) as *Tor moyarensis* and have even shown a photograph of the species!

Species highlighted in yellow are not reported in earlier works

**Table 7 Check list of birds for the Project Landscape**

<b>S.No</b>	<b>Common Name</b>	<b>Scientific Name</b>
1.	Babbler, Jungle	<i>Turdoides striatus</i>
2.	Babbler, Large Grey	<i>Turdoides malcolmi</i>
3.	Babbler, Puff-throated	<i>Pellorneum ruficeps</i>
4.	Babbler, Tawny-bellied	<i>Dumetia hyperythra</i>
5.	Babbler, Yellow-billed	<i>Turdoides affinis</i>
6.	Barbet, Brown-headed	<i>Megalaima zeylanica</i>
7.	Barbet, Coppersmith	<i>Megalaima haemacephala</i>
8.	Barbet, White-cheeked	<i>Megalaima viridis</i>
9.	Bee-eater, Chestnut-headed	<i>Merops leschenaulti</i>
10.	Bee-eater, Green	<i>Merops orientalis</i>
11.	Bulbul, Red-vented	<i>Pycnonotus cafer</i>
12.	Bulbul, Red-whiskered	<i>Pycnonotus jocosus</i>
13.	Bulbul, White-browed	<i>Pycnonotus luteolus</i>
14.	Bushchat, Pied	<i>Saxicola caprata</i>
15.	Buzzard, Oriental Honey	<i>Pernis ptilorhynchus</i>
16.	Cisticola, Zitting	<i>Cisticola juncidis</i>
17.	Cormorant, Great	<i>Phalacrocorax carbo</i>
18.	Cormorant, Indian	<i>Phalacrocorax fuscicollis</i>
19.	Cormorant, Little	<i>Phalacrocorax niger</i>
20.	Coucal, Greater	<i>Centropus sinensis</i>
21.	Crow, House	<i>Corvus splendens</i>
22.	Crow, Large-billed	<i>Corvus macrorhynchos</i>
23.	Cuckoo, Common Hawk	<i>Hierococcyx varius</i>
24.	Cuckoo, Grey-bellied	<i>Cacomantis passerinus</i>
25.	Cuckoo, Indian	<i>Cuculus micropterus</i>
26.	Cuckoo, Pied	<i>Clamator jacobinus</i>
27.	Dove, Eurasian Collared	<i>Streptopelia decaocto</i>
28.	Dove, Laughing	<i>Streptopelia senegalensis</i>
29.	Dove, Spotted	<i>Streptopelia chinensis</i>
30.	Drongo, Black	<i>Dicrurus macrocercus</i>
31.	Drongo, White-bellied	<i>Dicrurus caerulescens</i>
32.	Eagle, Changeable Hawk	<i>Spizaetus cirrhatus</i>
33.	Eagle, Crested Serpent	<i>Spilornis cheela</i>
34.	Eagle, Grey-headed Fish	<i>Ichthyophaga ichthyaetus</i>
35.	Eagle, Short-toed Snake	<i>Circaetus gallicus</i>
36.	Egret, Cattle	<i>Bubulcus ibis</i>
37.	Egret, Little	<i>Egretta garzetta</i>
38.	Falcon, Red-necked	<i>Falco chiquera</i>
39.	Flameback, Black-rumped	<i>Dinopium benghalense</i>
40.	Flowerpecker, Pale-billed	<i>Dicaeum erythrorhynchus</i>
41.	Flowerpecker, Plain	<i>Dicaeum concolor</i>
42.	Flowerpecker, Thick-billed	<i>Dicaeum agile</i>
43.	Flycatcher, Asian Brown	<i>Muscicapa dauurica</i>
44.	Flycatcher, Asian Paradise	<i>Terpsiphone paradisi</i>

<b>S.No</b>	<b>Common Name</b>	<b>Scientific Name</b>
45.	Flycatcher, Tickell's Blue	<i>Cyornis tickelliae</i>
46.	Flycatcher, Verditer	<i>Eumyias thalassina</i>
47.	Francolin, Grey	<i>Francolinus pondicerianus</i>
48.	Heron, Grey	<i>Ardea cinerea</i>
49.	Heron, Indian Pond	<i>Ardeola grayii</i>
50.	Heron, Striated	<i>Butorides striatus</i>
51.	Hoopoe, Common	<i>Upupa epops</i>
52.	Hornbill, Indian Grey	<i>Ocyrceros birostris</i>
53.	Iora, Common	<i>Aegithina tiphia</i>
54.	Junglefowl, Grey	<i>Gallus sonneratii</i>
55.	Kestrel, Common	<i>Falco tinnunculus</i>
56.	Kingfisher, Common	<i>Alcedo atthis</i>
57.	Kingfisher, Stork-billed	<i>Halcyon capensis</i>
58.	Kingfisher, White-throated	<i>Halcyon smyrnensis</i>
59.	Kite, Black	<i>Milvus migrans</i>
60.	Kite, Brahminy	<i>Haliastur Indus</i>
61.	Koel, Asian	<i>Eudynamys scolopacea</i>
62.	Lapwing, Red-wattled	<i>Vanellus indicus</i>
63.	Lark, Ashy-crowned Sparrow	<i>Eremopterix grisea</i>
64.	Lark, Rufous-winged	<i>Mirafra assamica</i>
65.	Leafbird, Blue-winged	<i>Chloropsis cochinchinensis</i>
66.	Malkoha, Blue-faced	<i>Phaenicophaeus viridirostris</i>
67.	Minivet, Small	<i>Pericrocotus cinnamomeus</i>
68.	Myna, Common	<i>Acridotheres tristis</i>
69.	Myna, Jungle	<i>Acridotheres fuscus</i>
70.	Nightjar, Grey	<i>Caprimulgus indicus</i>
71.	Nightjar, Indian	<i>Caprimulgus asiaticus</i>
72.	Nightjar, Jerdon's	<i>Caprimulgus atripennis</i>
73.	Nightjar, Savanna	<i>Caprimulgus affinis</i>
74.	Oriole, Black-hooded	<i>Oriolus xanthornus</i>
75.	Oriole, Eurasian Golden	<i>Oriolus oriolus</i>
76.	Owl, Brown Fish	<i>Ketupa zeylonensis</i>
77.	Owlet, Jungle	<i>Glaucidium radiatum</i>
78.	Owlet, Spotted	<i>Athene brama</i>
79.	Parakeet, Malabar	<i>Psittacula columboides</i>
80.	Parakeet, Rose-ringed	<i>Psittacula krameri</i>
81.	Parrot, Vernal Hanging	<i>Loriculus vernalis</i>
82.	Peafowl, India	<i>Pavo cristatus</i>
83.	Petronia, Chestnut-shouldered	<i>Petronia xanthocollis</i>
84.	Pigeon, Rock	<i>Columba livia</i>
85.	Pigeon, Yellow-footed Green	<i>Treron phoenicoptera</i>
86.	Pipit, Olive-backed	<i>Anthus hodgsoni</i>
87.	Pipit, Paddyfield	<i>Anthus rufulus</i>
88.	Prinia, Ashy	<i>Prinia socialis</i>
89.	Prinia, Grey-breasted	<i>Prinia hodgsonii</i>

<b>S.No</b>	<b>Common Name</b>	<b>Scientific Name</b>
90.	Prinia, Plain	<i>Prinia inornata</i>
91.	Quail, Rain	<i>Coturnix coromandelica</i>
92.	Robin, Indian	<i>Saxicoloides fulicata</i>
93.	Robin, Oriental Magpie	<i>Copsychus saularis</i>
94.	Roller, Indian	<i>Coracias benghalensis</i>
95.	Sandgrouse, Chestnut-bellied	<i>Pterocles exustus</i>
96.	Shikra	<i>Accipiter badius</i>
97.	Shrike, Bay-backed	<i>Lanius vittatus</i>
98.	Shrike, Black-headed Cuckoo	<i>Coracina melanoptera</i>
99.	Shrike, Common Wood	<i>Tephrodornis pondicerianus</i>
100.	Silverbill, Indian	<i>Lonchura malabarica</i>
101.	Sparrow, House	<i>Passer domesticus</i>
102.	Spurfowl, Red	<i>Galloperdix spadicea</i>
103.	Starling, Brahminy	<i>Sturnus pagodarum</i>
104.	Sunbird, Loten's	<i>Nectarinia lotenia</i>
105.	Sunbird, Purple	<i>Nectarinia asiatica</i>
106.	Sunbird, Purple-rumped	<i>Nectarinia zeylonica</i>
107.	Swallow, Ashy Wood	<i>Artamus fuscus</i>
108.	Swallow, Barn	<i>Hirundo rustica</i>
109.	Swallow, Red-rumped	<i>Hirundo daurica</i>
110.	Swamphen, Purple	<i>Porphyrio porphyrio</i>
111.	Swift, Asian Palm	<i>Cypsiurus balasiensis</i>
112.	Swift, Crested Tree	<i>Hemiprocne coronata</i>
113.	Swift, House	<i>Apus affinis</i>
114.	Swiftlet, Indian	<i>Collacalia unicolor</i>
115.	Tailorbird, Common	<i>Orthotomus sutorius</i>
116.	Thick-knee, Eurasian	<i>Burhinus oediconemus</i>
117.	Tit, Great	<i>Parus major</i>
118.	Treepie, Rufous	<i>Dendrocitta vagabunda</i>
119.	Vulture, Long-billed	<i>Gyps indicus</i>
120.	Vulture, Red-headed	<i>Sarcogyps calvus</i>
121.	Vulture, White-rumped	<i>Gyps bengalensis</i>
122.	Wagtail, Grey	<i>Motacilla cinerea</i>
123.	Wagtail, White-browed	<i>Motacilla maderaspatensis</i>
124.	Warbler, Blyth's Reed	<i>Acrocephalus dumetorum</i>
125.	Warbler, Greenish	<i>Phylloscopus trochiloides</i>
126.	Waterhen, White-breasted	<i>Amaurornis phoenicurus</i>
127.	Woodpecker, Streak-throated	<i>Picus xanthopygaeus</i>

## Summary of the Bird Species Diversity along the Moyar River from Bhavani Sagar Dam to Thengumaragada

A total list of 127 species of birds was compiled based on transect walks spanning 7 days during December 2010 and February 2011. As transects were mostly through riparian and scrub jungle habitats, species of birds that prefer the moister forests are poorly represented in the list. Further, when the riparian habitats (including moist forests) around Gudalur are surveyed, a handful of birds that prefer higher elevations are likely to be added to the list. Based on the preliminary assessment and the heterogeneity of the landscape, it is estimated that the avifauna of the Moyar River corridor would be comprised of 150-175 species. The salient features of the avifauna are as follows:

- There is generally a predominance of terrestrial and scrub birds in the avifauna. Important among these are 4 species of nightjars (Grey Nightjar, Indian Nightjar, Jerdon's Nightjar and Savannah Nightjar), Chestnut-bellied Sandgrouse, Grey Francolin, Blue-faced Malkoha, Eurasian Thick-knee, Eurasian Collared Dove, Laughing Dove, Spotted Dove, Common Hoopoe and Tawny-bellied Babbler.
- Wetland birds are those that are more typically common in the riparian and lacustrine habitats of the Western Ghats; example 3 species of cormorants (including the Great Cormorant, Indian Cormorant and Little Cormorant), Grey Heron, Pond Heron, White-breasted Waterhen, Purple Swamphen, 3 species of kingfishers (including Stork-billed Kingfisher, Common Kingfisher and White-throated Kingfisher), Brahminy Kite, Grey-headed Fish Eagle, Brown Fish Owl and Grey Wagtail.
- Apart from the Brahminy Kite, Grey-headed Fish Eagle and Brown Fish Owl there are predators such as Crested Serpent Eagle, Oriental Honey Buzzard, Shikra, Common Kestrel, Red-necked Falcon, Jungle Owlet and Spotted Owlet.
- Endangered birds (as per the Wildlife (Protection) Act 1972) include Peafowl that are common and two species of vultures, viz., White-rumped Vulture and Long-billed Vulture.
- Besides the Peafowl and Grey Francolin there are other galliformes birds such as the Red Spurfowl and Grey Junglefowl.
- House Sparrows and Chestnut-shouldered Petronia (Yellow-throated Sparrow) are rather numerous in all the human settlements and adjoining cultivation.
- Two species of bee-eaters, 3 swallows, 4 swifts and a wood swallow constitute the guild of aerial feeding insectivores; of these the presence of the Indian Swiftlet, a cave-nesting swift, is of significance.