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COLLECTION OF BIRDS FROM
KORAPUT DISTRICT
ORISSA, INDIA

BY

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1988

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INTRODUCTION

The bird collection reported in this paper was made from the district of Koraput, Orissa, India, during February - March, 1977 by a party of the Zoological Survey of India, under my leadership. A few specimens along with the field notes which were collected by Sri P. K. Das and Dr. C. B. Sri vastava of this department in 1972 are also included. The present study mainly involves taxonomy and zoogeography. However, notes on ecology and behaviour of birds have also been appended with.

No comprehensive report on birds from Koraput district is known to science, except those of Ball (1877, 1878) who reported a few species from Jaipur (=Jeypore, Orissa State). The present account presented here may, therefore, be considered as the first ornithological report from this district.

Measurements : For wing, tail and bill measurements, the standard methods were followed (Ali and Ripley, 1968) and are expressed in millimetres. The measurements of only adults were given.

Material : A. M. = Forenoon; Noon; P. M. = Afternoon, were considered as the time of collection.

Weights (in g.) were taken in the field soon after the birds were killed. The sex was determined from the actual examination of the gonads, measurements of which are expressed in millimetres.

Local names were pursued by the author from the local sources and corroborated from the compendium published by Ali and Ripley (1968-1974).

The collection reported below comprises 99 species and subspecies belonging to 36 families and 12 orders.

I am grateful to the Director, Zoological Survey of India for laboratory facilities. I am indebted to Dr. V. C. Agrawal, Scientist 'SE' for his cooperation in preparation of this paper. My thanks are due to the officials of the Forest Department, Orissa, for their help during my field work.

DESCRIPTION OF KORAPUT DISTRICT ¹

The district of Koraput is located between 20° 3' and 17° 50' north latitudes and 81° 1' east longitudes. On the extreme north it is bounded by Kalahandi and Raipur districts of Orissa, on the west by Bastar district of Madhya Pradesh, on the south by the districts of East Godavari and Visakhapatnam of Andhra Pradesh and on the east by Srikakulam district of Andhra Pradesh and Ganjam of Orissa. Being irregular in shape, the district resembles the letter 'Y' in form

The total area of the district is = 27,192 Sq. km. It is the largest district in Orissa and also one of the largest in India.

The district of Koraput with its vastness and variety, makes it a land of geographical diversities. The whole tract can be divided into four distinct divisions *viz.*, Central plateau, alt. 900 m and upward; the Jey-pore plateau alt. 600 m, the Malkangiri plateau of 120-240 m the valleys and hill ranges in the Rayagada and Gunupur, ranging from 150-1500 m.

The main drainages are : Vamsadhara, Nagavali, Indravati, Kolab and Machkund. The river Machkund assumes the name 'Sileru' and becomes the boundary of the state, separating it from the East Godavari district of Andhra Pradesh

There are many waterfalls in the district, the most important one is the river Nagavali near Rayagada. It becomes a gorge with two falls of 6 and 9 m.

In river Machkund, a hydroelectric project was installed resulting in a 165 m. drop known as Dumduma falls.

The district of Koraput derives its name from its headquarter town, Koraput.

Among the minerals, at several places the deposits of china-clay and pottery clay are found. Graphite, iron-ore, limestone and manganese are promising.

Among the population of this district, the tribal population is very high. Among them Bonda, Dharua, Koya and Gadaba are noteworthy.

¹ Adapted from the Orissa District Gazetteers, Koraput, Government of Orissa, Cuttack, 1966.

The average annual rainfall over the district is 1,522 mm (59.92°). December is the coldest part of the year with the mean daily minimum temperature 11.2°C (52.2°F) May is the hottest month. The maximum temperature may reach over 38°C (100.4°F).

Due to shifting cultivation by the tribal people and also for implementation of the Dandakaranya Project, vast forest land has almost been cleared off, destroying the local fauna and flora. In spite of this devastating condition, the local avifauna is still abundant in variety and number. According to classification of Forest types by Champion and Seth (1968) the forest has been classified as southern Dry Mixed Deciduous Forest. Among them the more important plants are : Sal (*Shorea robusta*), Asana (*Terminalia tomentosa*), Dhaura (*Anogeissus latifolia*), Piasala (*Petrocarpus marsupium*), Mohua (*Madhuca latifolia*), Simili (*Bombax malabaricum*), Chara (*Buchanania latifolia*), Haldu (*Adina cordifolia*), Teak (*Tectona grandis*), Sissu (*Dalbergia sissu*).

Description of collecting stations

Birds were collected from six stations. Collections were made within five kilometres radius of each station, which covered forested areas, cultivated tracts, fallow land and marshes. The description of each station is given below :

1. *Madpal* or *Madpad* : A small village situated at 82°05' E. and 19°05' N. c 35 km South West of Jeypore, on a non-metal road. Gup-teswar is 10 km from Madpal. There is no big nullah nearby. The irrigation water is taken from the wells or from water reservoirs. The land is very undulating and unfertile. The forest as already mentioned above is of southern Dry Mixed Deciduous type. Among them the more important plants are : Sal (*Shorea robusta*), Dhaura (*Anogeissus latifolia*), Mohua (*Madhuca latifolia*), Simili (*Bombax malabaricum*), Gambhari (*Gmelina arborea*), Kuruma (*Adina cordifolia*), Amla (*Phyllanthus emblica*), Chara (*Buchanania latifolia*).

2. *Govindapalle* : This village is situated at 82°15' E. and 18°30' N. in the Malkangiri subdivision. It lies c 47 km South West of Jeypore. The road to Bonda hills takes off at Govindapalle from the Jeypore-Malkangiri road. This is the only approach to the Bonda hills by road. Govindapalle is an important place for trade communication with the

Bondas. The land is very undulating. There are many nullahs nearby. The irrigation water is taken from the nullahs. Paddy is the main agricultural crop. Bonda tribes live in Bonda hills. Forest also belongs to southern Dry Mixed Deciduous type. Plants are similar to that of Madpel.

3. *Balimila* : This village is situated at 82°05' E. and 18°15' N. in Malkangiri subdivision 29 km east of Malkangiri. A Hydro-electric Project has been undertaken near the village jointly by the Governments of Orissa and Andhra Pradesh. Three dykes have been erected near by. Orkel, a town is only three km from Balimila. The forest is very rich. Among them the most important plants are : Teak (*Tectona grandis*), Bija (*Pterocarpus marsupium*), Gambhari (*Gmelina arborea*), Sissu (*Dalbergia sissu*), Sal (*Shorea robusta*), Haldu (*Adina cordifolia*). Dhaura (*Anogeissus latifolia*),. Beside the forest area, there is hardly any cultivated land, because of Dandakaranya Project.

4. *Chittarkonda* or *Chitrakonda* : A small town situated at 82°05' E. and 18°05' N. on the bank of the river Sileru. It is c 23 km from Balimila. A dam has been constructed at Chitrakonda across the river Sileru and the reservoir submerged a rich area of the district. Due to the construction of the dam, small industries were developed around the area. Outside the town some good forests still exist. Near the forest area some agricultural fields have also come up by shifting cultivation. The forest also belongs to southern Dry Mixed Deciduous type. The important plants are : Sal (*Shorea robusta*), Dhaura (*Anogeissus latifolia*), Gambhari (*Gmelina arborea*), Amla (*Phyllanthus emblica*), Teak (*Tectona arborea*), Sissu (*Dalbergia sissu*). The irrigation water is taken from the river sources. Paddy and potatoes are the main agricultural crops.

5 *Kashipur* : It is situated at 83°05' E. and 19°20' N. It is a village located in a hilly region. The place is covered with thin forest. The Podu or shifting cultivation is, perhaps, responsible for the thinning of the forest. The following trees are prominent : Saja (*Terminalia tomentosa*), Dhaura (*Anogeissus latifolia*), Bija (*Pterocarpus marsupium*), Mahua (*Madhuca latifolia*), Haldu (*Adina cordifolia*), Dudhi (*Holorrhena antidysenterica*), Palasbel (*Butea superba*), Shisham (*Dalbergia latifolia*), Maror Phali (*Helicteres isoëra*), Scattered Teak (*Tectona grandis*), Garai (*Cleistanthus collinus*).

6. *Liliqumma* : It is situated at 83° 10' E. and 19°15' N. This is a small village. The forest is also very thin due to shifting cultivation. The most important plants are : Sal (*Shorea robusta*), and its other associates like Saja (*Terminalia tomentosa*), Haldu (*Adina cordifolia*), Bija (*Pterocarpus marsupium*), Dhaura (*Anogeissus latifolia*). The irrigation water is taken from reservoirs and from wells. The main agricultural product is paddy.

SYSTEMATIC LIST OF BIRDS FROM KORAPUT DISTRICT AS REPORTED IN THIS PAPER.

Order PODICIPEDIFORMES

Family PODICIPITIDAE

1. *Podiceps ruficollis capensis* Salvadori

Order CICONIIFORMES

Family ARDEIDAE

2. *Ardeola grayii grayii* (Sykes)
3. *Nycticorax nycticorax nycticorax* (Linnaeus)

Family CICONIIDAE

4. *Anastomus oscitans* (Boddaert)

Order FALCONIFORMES

Family ACCIPITRIDAE

5. *Elanus caeruleus vociferus* (Latham)
6. *Pernis ptilorhynchus ruficollis* Lesson
7. *Accipiter badius dusumieri* (Temminck)
8. *Circus melanoleucos* (Pennant)
9. *Spilornis cheela melanotis* (Jerdon)

Order GRUIFORMES

Family TURNICIDAE

10. *Turnix tanki tanki* Blyth

Order COLUMBIFORMES

Family COLOMBIDAE

11. *Treron bicincta bicincta* (Jerdon)
12. *Treron phoenicoptera phoenicoptera* (Latham)
13. *Treron phoenicoptera chloriqaster* (Blyth)
14. *Streptopelia chinensis suratensis* (Gmelin)

Order PSITTACIFORMES

Family PSITTACIDAE

15. *Psittacula eupatria nipalensis* (Hodgson)

16. *Psittacula eupatria eupatria* (Linnaeus)
17. *Psittacula cyanocephala cyanocephala* (Linnaeus)

Order CUCULIFORMES

Family CUCULIDAE

18. *Cuculus varius varius* Vahl
19. *Cuculus canorus canorus* Linnaeus
20. *Eudynamys scolopacea scolopacea* (Linnaeus)
21. *Taccocua leschenaultii infuscata* Blyth

Order STRIGIFORMES

Family STRIGIDAE

22. *Otus scops sunia* (Hodgson)
23. *Glaucidium radiatum radiatum* (Tickell)
24. *Ninox scutulata lugubris* (Tickell)
25. *Athene brama brama* (Temminck)

Order CAPRIMULGIFORMES

Family CAPRIMULGIDAE

26. *Caprimulqus indicus indicus* Latham
27. *Caprimulqus asiaticus asiaticus* Latham

Order CORACIIFORMES

Family ALCEDINIDAE

28. *Alcedo atthis bengalensis* (Gmelin)
29. *Halcyon smyrnensis fusca* (Boddaert)

Family MEROPIDAE

30. *Merops leschenaulti leschenaulti* Vieillot

Family CORACIIDAE

31. *Coracias benghalensis benghalensis* (Linnaeus)

Family UPUPIDAE

32. *Upupa epops ceylonensis* Reichenbach

Order PICIFORMES

Family CAPITONIDAE

33. *Megalaima zeylonica caniceps* (Franklin)
34. *Megalaima haemacephala indica* (Latham)

Family PICIDAE

Subfamily JYNGINAE

35. *Jynx torquilla torquilla* Linnaeus

Subfamily PICUMNINAE

36. *Dinopium benghalense benghalense* (Linnaeus)
37. *Picoides macei macei* (Vieillot)
38. *Picoides mahrattensis mahrattensis* (Latham)
39. *Chrysocolaptes lucidus quttacristatus* (Tickell)

Order PASSERIFORMES

Family ALAUDIDAE

40. *Mirafra assamica affinis* Blyth

Family HIRUNDINIDAE

41. *Hirundo daurica nipalensis* Hodgson

Family LANIIDAE

42. *Lanius schach tricolor* (Hodgson)
43. *Lanius cristatus cristatus* Linnaeus

Family ORIOLIDAE

44. *Oriolus xanthornus maderaspatanus* Franklin

Family DICRURIDAE

45. *Dicrurus adsimilis macrocercus* Vieillot
46. *Dicrurus hottentottus hottentottus* (Linnaeus)

Family ARTAMIDAE

47. *Artamus fuscus* Vieillot

Family STURNIDAE

48. *Sturnus malabaricus malabaricus* (Gmelin)
49. *Sturnus pagodarum* (Gmelin)
50. *Gracula religiosa intermedia* A. Hay

Family CORVIDAE

51. *Dendrocitta vagabunda vagabunda* (Latham)
52. *Corvus splendens splendens* Vieillot

53. *Corvus macrorhynchos culminatus* Sykes

Family CAMPEPHAGIDAE

54. *Tephrodornis pondicerianus pondicerianus* (Gmelin)55. *Coracina novaehollandiae macei* (Lesson)56. *Pericrocotus flammeus semiruber* Whistler & Kinnear

Family IRENIDAE

57. *Aegithina tiphia humei* Baker58. *Chloropsis aurifrons aurifrons* (Temminck)

Family PYCNONOTIDAE

59. *Pycnonotus jacosus emeria* (Linnaeus)60. *Pycnonotus cafer wetmorei* Deignan

Family MUSCICAPIDAE

Subfamily TIMALIINAE

61. *Pellorneum ruficeps ruficeps* Swainson62. *Dumetia hyperythra hyperythra* (Franklin)63. *Chrysomma sinense sinense* Gmelin64. *Turdoides striatus orissae* Jerdon65. *Alcippe poiocephala brucei* Hume

Subfamily MUSCICAPINAE

66. *Muscicapa parva albicilla* Pallas67. *Muscicapa poliogenys vernayi* (Whistler)68. *Muscicapa rubeculoides rubeculoides* (Vigors)69. *Muscicapa tickelliae tickelliae* (Blyth)70. *Muscicapa thalassina thalassina* Swainson71. *Culicicapa ceylonensis calochrysea* Oberholser72. *Rhipidura albicollis orissae* Ripley

Subfamily MONARCHINAE

73. *Hypothymis azurea styani* (Hartlaub)

Subfamily SYLVIINAE

74. *Prinia hodqsonii hodqsonii* Blyth75. *Prinia buchanani* Blyth

76. *Orthotomus sutorius guzuratus* (Latham)

77. *Acrocephalus dumetorum* Blyth

78. *Copsychus saularis saularis* (Linnaeus)

79. *Copsychus malabaricus indicus* (Baker)

Subfamily TURDINAE

80. *Saxicoloides fulicata erythrura* (Lesson)

81. *Monticola cinclorhynchus* (Vigors)

82. *Zoothera citrina cyanotus* (Jardine & Selby)

Family PARIDAE

Subfamily PARINAE

83. *Parus xanthogenys aplonotus* Blyth

Family SITTIDAE

Subfamily SITTINAE

84. *Sitta castanea castanea* Lesson

Family MOTACILLIDAE

85. *Anthus hodgsoni hodgsoni* Richmond

86. *Motacilla cinerea cinerea* Tunstall

87. *Motacilla maderaspatensis* Gmelin

Family DICAERIDAE

88. *Dicaeum agile agile* (Tickell)

Family NECTARINIIDAE

89. *Nectarinia zeylonica sola* (Vieillot)

90. *Nectarinia asiatica asiatica* (Latham)

91. *Nectarinia asiatica intermedia* (Hume)

92. *Aethopyga siparaja sehcriae* (Tickell)

93. *Arachnothera longirostris longirostris* (Latham)

Family ZOSTEROPIDAE

94. *Zosterops palpebrosa palpebrosa* (Temminck)

Family PLOCEIDAE

Subfamily PASSERINAE

95. *Passer domesticus indicus* Jardine & Selby

96. *Petronia xanthocollis xanthocollis* (Burton)

Subfamily ESTRILDINAE

97. *Estrilda formosa* (Latham)

98. *Lonchura striata striata* (Linnaeus)

Family FRINGILLIDAE

Subfamily CARDUELINAE

99. *Carpodacus erythrinus roseatus* (Blyth)

SYSTEMATIC ACCOUNT
Order PODICIPEDIFORMES
Family PODICIPITIDAE

1. *Podiceps ruficollis capensis* Salvadori*Podiceps capensis* Salvadori, 1884, *Ann. Mus. Civ. Genova* (2), 1 : 252 (Shoa, Africa).

Common name : Little Grebe or Dabchick (English), Pandubi (Local).

Material : 1 ♂, Kashipur, 4 June (A.M.), 1972.*Measurements* : 1 ♂ : Wing 100, tail —, bill 27.

Gonads : Testes not elongated, similar in shape but dissimilar in size, the right smaller, 4.0 × 3.0, while the left larger, 5.0 × 3.0.

Field notes : Not very common, usually found in some undisturbed tanks and jheels, difficult to approach. Food : Largely aquatic insects, molluscs and fish.

Order CICONIIFORMES

Family ARDEIDAE

2. *Ardeola grayii grayii* (Sykes)*Ardea Grayii* Sykes, 1832, *Proc. zool. Soc. Lond.* : 158 (Dukhun=Deccan)Common name : Indian Pond Heron or Paddybird (English), *Khunch bagla* (Local).*Material* : 1 ♂, Govindapalle, 2 March. (A.M.), 1977.*Measurements* : 1 ♂ : Wing 205, tail 83, bill 72.*Weight* : 278

Gonads : Testes similar in shape and size and symmetrical in position, measuring 3.0 × 2.0.

Field notes : Very common and widely distributed; found in marshes and paddyfields. Food : Small frogs, fish, water beetles and hemipterans.

3 *Nycticorax nycticorax nycticorax* (Linnaeus)

(Southern Europe)

Ardea Nycticorax Linnaeus, 1758, *Syst. Nat.*, 10, ed. 1 : 142.

Common name : Night Heron (English), *Chinta wakha* (Local).

Material : 1 ♀, Kashipur, 6 June (A.M.), 1972.

Measurements : 1 ♀ : Wing 260, tail 103, bill 78.

Gonad : Ovary in non-breeding condition, measuring 13.0 × 9.0.

Field notes : Found solitary, in pairs or sometimes groups. Very sluggish.

Nocturnal, spending daytime under the coverage of thick foliage of trees. Food : Small fish, frogs, aquatic beetles and hemipterans.

Family CICONIIDAE

4. *Anastomus oscitans* (Boddaert)

Ardea oscitans Boddaert, 1783, *Table Pl. enlum.*, 55 (Pondicherry).

Common name : Openbill Stork (English), Galu Konga (Local).

Material : 1 ♂, Chitrakonda, 17 March (Noon), 1977.

Measurements : 1 ♂ ; Wing 450, tail 164, bill 165.

Gonads : Testes similar in shape and size, slightly swollen.

Field notes : Not very common, found only in Chitrakonda; seen in small flocks, comprising 30 – 40 individuals, perching on the top of bare big trees along the river Sileru. Stomach contents - Fish and molluscs.

Remark : Ball (1878) reported this species from Jaipur (=Jeypore).

Order FALCONIFORMES

Family ACCIPITRIDAE

5. *Elanus caeruleus vociferus* (Latham)

Falco vociferus Latham, 1970. *Index Orn.*, 1 : 46 (Coromandel Coast).

Common Name : Blackwinged Kite (English), *Kapassi* (Local).

Material : 1 ♀, Madpad, 23 February (A.M.), 1977.

Measurements : 1 ♀ : Wing 260, tail 127, bill 25.

Gonad : Ovary somewhat swollen and granular, measuring 9.5 × 5.0.

Field notes : Seen singly. Very common, The specimen had pieces of mouse in its crop.

6. *Pernis ptilorhynchus ruficollis* Lesson

Pernis ruficollis Lesson, 1830, *Traite d' orn.*, livr. 1 : 77 ('Patrie inconnue' ==Bengal),

Common name : Crested Honey Buzzard (English), *Tenu geddu* (Local).

Material : 2 ♂, Chitrakonda, 16 March (A.M.), 1977.

Measurements : 2 ♂ : Wing 390, 400; tail 242, 255; bill 40, 42.

Gonads : Testes in one specimen similar in shape and size, measuring 9.5 X 6.0 while in other dissimilar in shape (right more elongated and left more oval) and measured 12.0 X 8.0 and 9.5 X 7.5 respectively.

Field notes : Quite uncommon; seen singly on the branches of big trees.

Stomach contents : Insects.

Remarks : Ball (1878) reported this species from Jaipur (=Jeypore).

7. *Accipiter badius dussumieri* (Temminck)

Falco dussumieri Temminck, 1824, *Pl. Col.*, Livr. 52, text to pl.

308(adult). pl. 336 (immature). (India, type from Bengal).

Common name : Indian Shikara (English), *Shikara* (Local).

Material : 1 ♂, Madpad. 24 February (A.M.), 1977; 1 ♂ Govindapalle, 1 March (P.M.), 1977; 2 ♂ and 2 ♀, Balimila, 6, 8 and 10 March (A.M.), 1977; 1 ♀, Chitrakonda, 15 March (Noon), 1977.

<i>Measurements</i> :	Wing	Tail	Bill
4 ♂	176, 182, 186, 188	134, 140, 147, 148	20(2), 21(2)
3 ♀	193, 198, 203	154(2), 165	22, 23(2)

Gonads : Testes similar in shape and size and symmetrical in position. In one specimen from Balimila (8 March) slightly swollen, while in others enlarged and measured 11.5 X 6.0, 12.0 X 6.5, and 12.5 X 7.5. Ovaries in two females (Balimila) elongated, while in the third (Chitrakonda) markedly enlarged (15.5 X 6.5); the largest ovum being 4.0 in diameter.

Field notes : Very common. Usually seen singly, sometimes in pairs in and around cultivated field. Stomach contents : Rats, mice, lizards and grasshoppers.

8. *Circus melanoleucos* (Pennant)

Falco melanoleucos Pennant, 1769, *Ind. Zool.* : 12, pl. 2 (Ceylon=Sri Lanka).

Common name : Pied Harrier (English), *Pahatai* (Local).

Material : 1 ♂, Chitrakonda, 15 March (A.M.), 1977.

Measurements : 1 ♂ : Wing 334, tail 200, bill 28.

Gonads : Testes rudimentary, similar in shape and size and symmetrical in position.

Field notes : Common, usually seen singly in and around cultivated fields; flight strong and rapid with fast wing beats. Stomach contents : Mice, grasshoppers and beetles.

9. *Spilornis cheela melanotis* (Jerdon)

Buteo melanotis Jerdon, 1884, *Madras J. Lit. Sci.*, 13 : 166 (Nilgiris, Tamil Nadu).

Common name : Lesser or Penninsular Crested Serpent Eagle (English).
Nalla pa-mula qadda (Local).

Material : 2 ♂ and 2 ♀, Balimila, 5 and 9 March (A.M.), 1977; 1 ♂, Chitrakonda, 9 Nov., 1977.

<i>Measurements</i> :	Wing	Tail	Bill
3 ♂	437, 447, 450	287(2), 293	40, 45, 47
1 ♀	465	295	44

Gonads : Testes similar in shape and size and symmetrical in position in one bird from Balimila (5 March) and measured 4.5×3.0 ; in other two more enlarged, dissimilar in size, measuring 9.5×4.5 and 10.0×6.0 . Ovary granular and enlarged.

Field notes : Very common, solitary and very shy. Perching for long period on top of dead or dry branches of trees. Stomach contents : Frogs, rats and mice.

Order GRUIFORMES

Family TURNICIDAE

10. *Turnix tanki tanki* Blyth

Turnix tanki Blyth, 1843, *J Asiatic Soc. Beng.*, 12 : 180 (No Locality=Bengal, based on drawing by Buchanan Hamilton) (Not *Turnix maculatus* Vieillot = Synonym of *Turnix maculosa* (Temminck)).

Common name : Indian Yellowlegged Button Quail (English).

Material : 1 ♂, Chitrakonda, 16 March (A.M.), 1977; 1 ♀, Madpad, 24 February (A. M), 1977.

<i>Measurements</i> :	Wing	Tail	Bill
1 ♂	80	25	14
1 ♀	90	31	15

Gonads : Testes very rudimentary; while ovary well developed, measuring 8.5×2.5 .

Field notes : Very common, seen in pairs, difficult to locate because of its coloration. camouflaging against background. Seen in tufts of long grasses, in scattered small bushes, in harvested or in ploughed fields.

Stomach contents : Grass seeds and small insects.

Order COLUMBIFORMES

Family COLUMBIDAE

11. *Treron bicincta bicincta* (Jerdon)

Vinago bicincta Jerdon, 1840, *Madras J. Lit. Sci.*, 12 : 13

(Sea coast south of Teluchervy, Tamil Nadu).

Common name : Indian Orangebreasted Green Pigeon (English), *Pasapu pachcha pavuramu* (Local).

Material : 1 ♀, Madpad, 22 February (P. M.), 1977.

Measurements : 1 ♀ : Wing 157, tail 92, bill 18.

Gonad : Ovary markedly enlarged, measuring 17.0 × 14.0, largest ovum being 3.5 in diameter

Field notes : Quite common; seen in large flocks comprising 50-60 individuals, feeding on fruits of peepul tree. Stomach contents : Seeds of peepul (*Ficus religiosa*).

12. *Treron phoenicoptera phoenicoptera* (Latham)

Columba phoenicoptera Latham, 1790 *Index Orn.*, 2 : 597 (India).

Common name : Bengal Green Pigeon (English), *Harial* (Local).

Material : 2 ♂ Madpad, 21 and 22 February (A. M.), 1977.

Measurements : 2 ♂ : Wing 157, 165; tail 105, 111; bill 20, 24.

Gonads : Testes symmetrical in position and enlarged, each measuring 16.0 × 8.0 and 17.5 × 9.0.

Field notes : Rather common; seen in small groups of 20-30 individuals, feeding on juicy fruits Stomach contents : Seeds of Mohua (*Madhuca latifolia*) and Banyan (*Fiscus bengalensis*).

13. *Treron phoenicoptera chlorigaster* (Blyth)

Vinago chlorigaster Blyth, 1843, *J. Asiat. Soc. Beng.*, 12(1) : 167, note (No Locality = Indian Peninsula).

Common name : Southern Green Pigeon (English), *Pachcha guvva* (Local).

Material : 1 ♂ Madpad, 19 February (Noon), 1977.

Measurements : 1 ♂ : Wing 183, tail 115, bill 24.

Weight : 235.

Gondas : Testes similar in shape and size, symmetrical in position, each measuring 17.5×8.0 .

Field notes : Common; occasionally found in large flocks of 30—40 individuals, feeding in association with other birds. *Stomach contents* : Figs of Peepul and Banyan.

14. *Streptopelia chinensis suratensis* (Gmelin)

Columba suratensis Gmelin, 1789, *Syst. Nat.*, 13 ed., 1 : 778 (Surat, Gujarat, India).

Common name : Indian Spotted Dove (English), *Poda bellaguvva* (Local).

Material : 1 ♂, Balimila, 11 March (A. M.), 1977.

Measurements : 1 ♂ : Wing 140, tail 141, bill 20.

Weight : 115.

Gonads : Testes similar in shape and size, symmetrical in position, and enlarged, each measuring 9.5×4.5 .

Field notes : Very common, seen in pairs or in small groups comprising six to 10 individuals, picking up seeds and grains from the soil, sometimes invading cultivated fields in groups. *Stomach contents* : Grass, weed-seeds and rice.

Order PSITTACIFORMES

Family PSITTACIDAE

15. *Psittacula eupatria nipalensis* (Hodgson)

Palaeornis Nipalensis Hodgson, 1836, *Asiat. Res.*, 19 (1) : 177 (Nepal).

Common name : Large Indian Parakeet (English), *Suva tota* (Local).

Material : 1 ♂, Madpad, 20 February (A.M.), 1977.

Measurements : 1 ♂ : Wing 205, tail 247, bill 36.

Weight : 190.

Gonads : Testes dissimilar in shape and size and slightly swollen, right one being smaller (7.0×4.5) and left one larger (9.5×6.5).

Field notes : Rather common; seen in large groups comprising 40-50 individuals, perching preferably on tall trees : feeds on wild and cultivated fruits, vegetables, etc.

16. *Psittacula eupatria eupatria* (Linnaeus)

Psittacus Eupatria Linnaeus, 1766, *Syst. Nat.*, 12 ed., 1 : 140 (No. locality=Gingee,

South Arcot district, Madras=Tamil Nadu *ex* Brisson).

Common name : Large Ceylonese Parakeet (English), *Pedda Chiluka* (Local).

Material : 1 ♂, Madpad, 24 February (A. M.), 1977.

Measurements : 1 ♂, Wing 220, tail 320, bill 41.

Weight : 180.

Gonads : Testes similar in shape and size, symmetrical in position and enlarged, measuring 16.5 × 9.5.

Field notes : Common; occurring in large congregation during feeding time, perching preferably on tall trees. Stomach contents : Seeds of wild fruits.

17. *Psittacula cyanocephala cyanocephala* (Linnaeus)

Psittacus cyanocephalus Linnaeus, 1776. *Syst. nat.*, 12 ed., 1 : 141 (East Indies =Gingee, South Arcot, Madras=Tamil Nadu).

Common name : Southern Blossomheaded Parakeet (English), *Rama chiluka* (Local).

Material : 15 ♂ (adult), 4 ♀ (juvenile), Madpad, 19, 20, 21 and 22 March (A. M. and P. M.), 1977; 2 ♂ and 1 ♀, Balimila, 9 and 11 March (A.M.) 1977.

<i>Measurements</i> :	Wing	Tail	Bill
17 ♂	130(5), 133(2), 134, 135(2) 136(2), 137(2), 138(2), 139	176, 177(2), 180(4), 185, 190	18(8), 19(8), 20
1 ♀	137	203	18

Weight : 14 ♂ : 60(3), 62, 64, 66(3), 68(3), 70, 73, 76; 1 ♀ : 70.

Gonads : In some testes slightly swollen, measuring 2.5 × 1.5—6.0 × 2.0, while in others enlarged, measuring 3.5 × 2.5 — 8.0 × 3.5.

Ovaries markedly enlarged measuring 6.0 × 3.0 — 8.0 × 4.0.

Field notes : Very common; seen in flocks of 30 to 40 individuals, invading jowar fields (*Sorghum vulgare*); stomach contents : Jowar, grass and weed seeds.

Order CUCULIFORMES

Family CUCULIDAE

18. *Cuculus varius varius* Vahl

Cuculus varius Vahl, 1797, *Skriv. Naturhist. Selsk.*, Kjobenhavn 4(1) : 60 (Tranquebar, Tamil Nadu).

Common name : Common Hawk-Cuckoo or Brainfever Bird (English),
Kutti pitta (Local).

Material : 1 ♀, Govindapalle, 28 February (Noon), 1977.

Measurements : 1 ♀ : Wing 188, tail 154, bill 25.

Weight : 93.

Gonad : Ovary somewhat swollen and granular, measuring 8.5×7.5 , largest ovum being 1.0 in diameter.

Field notes : Rather common; seen singly or in pairs, moving from branch to branch in search of insects. Stomach contents : Insects and spiders.

Remark : Ball (1877,1878) reported this subspecies from Jaipur(=Jeypore)

19. *Cuculus canorus canorus* Linnaeus

Cuculus canorus Linnaeus, 1758, *Syst. Nat.*, 10 ed., 1 : 110 (Europa=Sweden, *Ex Fn. Suec.*).

Common name : Cuckoo (English).

Material : 1 ♂, Liligumma, 6 June, 1972.

Measurements : 1 ♂ : Wing 216, tail 168, bill 28.

Gonads : Condition of testes not recorded.

Field note : Not recorded.

20. *Eudynamys scolopacea scolopacea* (Linnaeus)

Cuculus scolopaceus Linnaeus, 1758, *Syst. Nat.*, 10, ed. 1 : 111 (Malabar).

Common name : Indian Koel (English), *Nalla kovala* (Local).

Material : 1 ♂, Chitrakonda, 16 March (A.M.), 1977.

Measurements : 1 ♂ : Wing 189, tail 175+, bill 30.

Weight : 200.

Gonads : Testes similar in shape and size and symmetrical in position, slightly swollen; each measuring 4.5×2.5 .

Field notes : Quite common; seen in pairs; foraging for insects and spiders preferably from big trees, with thick foliage.

21. *Taccocua leschennaultii infuscata* Blyth

Taccocua infuscata Blyth, 1845, *J. Asiat. Soc. Beng.*, 14(1) : 200 (Sub - Himalayan region; type from the terai region near Darjeeling).

Common name : Eastern Sirkeer Cuckoo (English), *Tangli tota* (Local).

Material : 2 ♂ and 1 ♀, Chitrakonda (A.M.), 1977.

<i>Measurements :</i>	Wing	Tail	Bill
2 ♂	155, 164	235, 246	31, 35
1 ♀	160	236	35

Gonads : Testes similar in shape and symmetrical in position. In one specimen rudimentary, while in other slightly swollen, measuring 5.0×3.5 .

Field notes : Very uncommon; seen only in Chitrakonda, singly or in pairs in bamboo thickets. Stomach contents : Grasshoppers, mantids, etc.

Order STRIGIFORMES

Family STRIGIDAE

Subfamily STRIGINAE

22. *Otus scops sunia* (Hodgson)

Scops sunia Hodgson, 1836, *Asiat. Res.*, 19 : 175 (Nepal).

Common name : North Indian Scops Owl (English),

Material : 1 ♂ and 1 ♀, Madpad, 18 February (A.M.), 1977.

<i>Measurements :</i>	Wing	Tail	Bill
1 ♂	137	60	21
1 ♀	137	62	21

Weights : 1 ♂ 70; 1 ♀ 68

Gonads : Testes similar in shape and size; symmetrical in position and slightly swollen, measuring 4.5×3.5 . Ovary granular, measuring 16.5×8.5 .

Field notes : Not very common; seen only in Madpad, in a pair in a big hole on trunk of a big tree. Stomach contents : Insects, mice and rats.

Remarks : Majumdar (1979) recorded this bird for the first time from Orissa.

23. *Glaucidium radiatum radiatum* (Tickell)

Strix Radiata Tickell, 1833. *J. Asiat. Soc. Beng.*, 2 : 572 (Jungles of Borabhum and Dholbhum).

Common name : Barred Jungle Owlet (English), Fangli choghad (Local).

Material : 1 ♂ and 2 ♀, Madpad, 21, 23 and 24 February (A.M. and

P.M.), 1977; 2 ♂, Govindapalle, 26 February and 3 March (A.M.), 1977; 1 ♂ and 1 ♀, Balimila, 7 March (A.M.), 1977; 1 ♂, Chitrakonda, 16 March (A.M.), 1977.

<i>Measurements :</i>	Wing	Tail	Bill
5 ♂	120, 122, 125, 129(2)	66, 68(2), 69, 72	20(4), 21
3 ♀	126, 129, 130	68, 70, 73	20(2), 21

Weights : 4 ♂ 96, 98, 100(2); 3 ♀ 100, 102, 104.

Gonads : Testes in two males (3 and 7 March) slightly swollen, each measuring 3.5×2.5 and 3.5×2.0 ; in remaining three, enlarged, symmetrical and similar in shape, each measuring 6.5×4.5 , 6.0×4.5 and 6.0×4.0 . Ovaries of all the specimens enlarged, in breeding condition, measuring 10.5×9.0 , 9.5×6.0 , 9.0×6.0 , largest ovum being 3.0 in diameter.

Field notes : Exceedingly common, found throughout the district; seen on the roadside trees as well as in agricultural fields. Stomach contents : Various types of insects, rats and mice.

Remarks : Ball (1878) reported this species from Jaipur (=Jeypore).

24. *Ninox scutulata lugubris* (Tickell)

Strix Lugubris Tickell, 1833, *J. Asiat. Soc. Beng.*, 2 : 572 (Dampara, Dholbhum, Bengal).

Common name : Indian Brown Hawk-Owl (English), *Choghad basra* (Local).

Material : 1 ♀, Madpad, 23 February (A.M.), 1977.

Measurements : 1 ♀ : Wing 217, tail 128, bill 23.

Gonad : Ovary enlarged, granular, measuring 9.5×6.5 , the largest ovum being 2.0 in diameter. The oviducal funnel already formed.

Field notes : Quite uncommon, seen singly or sometimes in pairs; usually perching on branches of trees, occasionally descending to the ground for collecting insects. Stomach contents : Beetles, grasshoppers and rats.

Remark : Ball (1877) reported this subspecies from Jaipur (=Jeypore)

25. *Athene brama brama* (Temminck)

Strix brama Temminck, 1821, *Pl. Col. Livr.* 12, pl. 68 (Pondicherry and West Coast of India).

Common name : Southern Spotted Owlet (English), *Pagadiganta* (Local).

Material : 1 ♂ and 1 ♀, Balimila, 9 march (A.M.), 12 March (Noon), 1977.

<i>Measurments</i> :	Wing	Tail	Bill
1 ♂	152	69	20
1 ♀	154	72	20

Weights : 1 ♂ 98; 1 ♀ 110.

Gonads : Testes similar in shape and size, symmetrical in position and rudimentary. Ovary enlarged, measuring approximately 20.5 × 10.5, largest ovum being 8.0 in diameter. The oviducal funnel already formed.

Field notes : Rather common; seen in pairs on trees by the road side or in crop fields. *Stomach contents* : Rats, mice and beetles.

Order CAPRIMULGIFORMES

Family CAPRIMULGIDAE

26. *Caprimulgus indicus indicus* Latham

Caprimulgus indicus Latham, 1790, *Index Orn.*, 2 : 588 (India).

Common name : Indian Jungle Nightjar (English), *Kapoo* (Local).

Material : 1 ♂ and 1 ♀, Balimila, 10 March (P.M.), 1977.

<i>Measurements</i> :	Wing	Tail	Bill
1 ♂	190	136	20
1 ♀	195	—	21

Weights : 1 ♂ 70; 1 ♀ 70.

Gonads : Testes similar in size and shape; symmetrical in position and enlarged measuring 8.0 × 5.0. Ovary enlarged measuring 8.0 × 5.0.

Field notes : Very common, singly or in pairs; found by roadside or in the vicinity of agricultural fields, piking up insects. *Stomach contents* : Various kinds of insects, particularly beetles and grasshoppers,

27. *Caprimulgus asiaticus asiaticus* Latham

Caprimulgus asiaticus Latham, 1790, *Index Orn.*, 2 : 588 (Bombay).

Common Name : Indian Little Nightjar (English), *Chapka* (Local).

Material : 1 ♂, Madpad, 20 February (P.M.), 1977; 2 ♂ and 2 ♀, Balimila, 10 and 12 March (P.M.), 1977.

<i>Measurements</i> :	Wing	Tail	Bill
3 ♂	140, 150(2)	106, 111, 115	16, 18(2)
2 ♀	143, 149	102, 115	18, 20

Weights : 3 ♂ 42(2), 48; 2 ♀ 46, 48.

Gonads : Testes similar in shape; symmetrical in position and enlarged, measuring 5.0×3.5 and 4.5×3.0 . Ovaries somewhat enlarged and measured 7.5×5.5 and 6.5×4.0 .

Field notes : Rather common, seen singly or in pairs, or sometimes in groups. Frequenting the ground by roadside or cultivated land for picking up insects. Stomach contents : Insects of various kinds including beetles and grasshoppers similar to those recorded in the preceding bird.

Order CORACIIFORMES

Family ALCEDINIDAE

28. *Alcedo atthis bengalensis* Gmelin

Alcedo bengalensis Gmelin, 1788, *Syst. Nat.*, 13 ed., 1 : 450 (Bengala=Bengal).

Common name : Indian small Blue Kingfisher (English), *Nita machhrala* (Local).

Material : 1 ♀, Govindapalle, 2 March(A.M.), 1977.

Measurements : 1 ♀ : Wing 72, tail 32, bill 45.

Weight : 24.

Gonads : Ovary in non-breeding condition, measuring about 4.5×2.0 .

Field notes : Rather common, seen singly or in pairs by the vicinity of water sources, sometimes more than three or four birds seen in one place. Stomach contents : Small fishes, water beetles and bugs.

29. *Halcyon smyrnensis fusca* (Boddaert)

Alcedo fusca Boddaert, 1783, *Table Pl. enlum.*, 54 (Malabar coast ex Daubenton, *Pl. enlum.*, no. 894).

Common name : Indian Whitebreasted Kingfisher (English), *Buchegadu* (Local).

Material : 1 ♂ : Kashipur, 4 June, 1972.

Measurements : 1 ♂ : Wing 117, tail 75, bill 62.

Gonads : Testes similar in size and shape; symmetrical in position, non-breeding and rudimentary.

Field notes : Quite common, occurs singly. sometimes in pairs, moving along the water sources, occasionally on the nearby trees; feeding on small fish, insects and tadpoles.

Family MEROPIDAE

30. *Merops leschenaulti leschenaulti* Vieillot

Merops leschenaulti Vieillot, 1817, *Nouv. Dict. Hist. Nat.*, 14 : 17 (java, error=Ceylon).

Common name : Chestnutheaded Bee-eater (English), *Lalsir patringa* (Local).

Material : 1 ♂, Govindapalle, 27 February (A.M.), 1977.

Measurements : 1 ♂ : Wing 109, tail 80, bill 40.

Weight : 26.

Gonads : Testes similar in size and shape; symmetrical in position and rudimentary; measuring 2.5×1.5 .

Field notes : Not very common, occurs singly or in pairs; sighted in small bushes, fence, and small twigs. Stomach contents : Insects and caterpillars.

Family CORACIIDAE

31. *Coracias benghalensis benghalensis* (Linnaeus)

Corvus benghalensis Linnaeus, 1758, *Syst. Nat.*, 10 ed., 1 : 106 (Bengala=Bengal).

Common name : Northern Roller or Blue Jay (English), *Pala pitta* (Local).

Material : 1 ♂, Balimila, 6 March (Noon), 1977.

Measurements : 1 ♂ : Wing 179, tail 120, bill 49.

Weight : 120.

Gonads : Testes asymmetrical in position and dissimilar in size, well-developed, left 6.5×4.5 and right 7.0×4.0 .

Field notes : Very common, seen either singly or in pairs, frequenting in and around agricultural fields. Stomach Contents : Frog and insect remnants.

Family UPUPIDAE

32. *Upupa epops ceylonensis* Reichenbach

Upupa ceylonensis Reichenbach, 1853, *Handb. spec. Orn. Scansoriae* : 320, pl. DXCV, f. 4036 (Ceylon=Sri Lanka).

Common name : Ceylon Hoopoe (English), *Konda pitta* (Local).

Material : 1 ♂ and 1 ♀, Chitrakonda, 10 and 18 March (A.M.), 1977.

<i>Measurements</i> :	Wing	Tail	Bill
1 ♂	140	96	67
1 ♀	138	98	64

Weights : 1 ♂ 56; 1 ♀ 50.

Gonads : Testes similar in shape but dissimilar in size; asymmetrical

in position, left 3.0×2.0 ; right 2.5×1.0 . Ovary in non-breeding condition, measured about 4.5×3.0 .

Field notes : Not very common, found only in Chitrakonda. seen in pairs, or in groups, multiples of twos; camouflaging against the background soil, difficult to locate. Stomach contents : Multilated beetles.

Order PICIFORMES

Family CAPITONIDAE

33. *Megalaima zeylanica caniceps* (Franklin)

Bucco caniceps Franklin, 1831, *Proc. zool. Soc. Lond.*, 121

(Ganges between Calcutta and Benaras, and Vindhyan Hills between the latter place and Gurrah Mundela on the Nerbudda).

Common name : Northern Green Barbet (English), *Bada basant* (Local).

Material : 1 ♂ Balimila, 12 March (P. M.), 1977.

Measurements : 1 ♂ : Wing 113, tail 72, bill 33.

Weight : 96.

Gonads : Testes similar in size and shape; symmetrical in position, slightly swollen, measuring 3.5×2.5 .

Field notes : Rather common; seen in pairs, frequenting thick foliage. Stomach contents : Wild figs (*Ficus religiosus* and *Ficus bengalensis*).

Remark : Ball (1878) reported this subspecies from Jaipur (=Jeypore).

34. *Megalaima haemacephala indica* (Latham)

Bucco indicus Latham, 1788, *Index Orn.*, 1(1) : 205 (India).

Common name : Crimsonbreasted Barbet or Coppersmith (English), *Chhota basant* (Local).

Material : 1 ♂, Chitrakonda, 16 March (A. M.), 1977.

Measurements : 1 ♂ : Wing 82, tail 34, bill 19.

Weight : 1 ♂ 32.

Gonads : Testes similar in size and shape; symmetrical in position, enlarged and measured 9.5×7.0 .

Field notes : Not very common, found only in Chitrakonda, singly or in pairs, frequenting thick foliage.

Family PICIDAE

Subfamily JYNGINAE

35. *Jynx torquilla torquilla* Linnaeus

Jynx Torquilla Linnaeus, 1758, *Syst. Nat.*, 10 ed., 1 : 112 (Europe=Sweden).

Common name : European Wryneck (English), *Meda nulingadu* (Local).

Material : 1 ♂, Chitrakonda, 15 March (A.M.), 1977.

Measurements : 1 ♂ : Wing 85, tail 68, bill 19.

Weight : 34.

Gonads : Testes non-breeding and rudimentary in size.

Field notes : Not very common; found only in Chitrakonda; seen singly, moving about quietly on the ground or in small bushes for picking up insects. Stomach contents : Small insects of various kinds, nymphs and caterpillars.

Subfamily PICUMNINAE

36. *Dinopium benghalense benghalense* (Linnaeus)

Picus benghalensis Linnaeus, 1758, *Syst. Nat.*, 10 ed, 1 : 113 (Benghala = Chander-nagor vide Stresemann, 1952, *Ibis*, 94 : 517).

Common name : Northern Goldenbacked Woodpecker (English), *Khidree* (Local).

Material : 1 ♂, Chitrakonda, 7 November, 1972; 1 ♂, Balimila, 6 March (Noon), 1977.

Measurements : 2 ♂ : Wing 140, 146; tail 89, 90; bill 38, 39.

Weight : 1 ♂ 100.

Gonads : Testes of one specimen (6 March) slightly swollen; symmetrical in position measuring 5.0×2.5 , others not measured.

Field notes : Exceedingly common, always seen in pairs or in a small groups in multiples of twos, very agile moving from tree to tree for picking up insects. Stomach contents : Beetles, grasshoppers, butterflies etc.

37. *Picoides macei macei* (Vieillot)

Picus Macei Vieillot, 1818, *Nouv. Dict. Hist. Nat.*, 26 : 80 (Bengal).

Common name : Indian Fulvousbreasted Pied Woodpecker (English),

Material : 1 ♂, Kashipur, 9 June, 1972.

Measurements : 1 ♂ : Wing 100, tail 56, bill 24.

Weight : Not recorded.

Gonads : Testes dissimilar in size and enlarged; left measured 7.0×3.0 and right 5.0×3.5 .

Field notes : Rather common, occurs in pairs, moving from tree to tree.

Food : Insects of various kinds.

38. *Picoides mahrattensis mahrattensis* (Latham)

Picus Mahrattensis Latham, 1801, *Index Orn.*, Suppl., 31 (India=Mahratta country ex *Gen. Syn.*, Suppl. 2 : 142, No 7).

Common name : Yellowfronted Pied or Mahratta Woodpecker (English), *Vadrangi pitta* (Local).

Material : 1 ♂, Madpad, 22 February (A.M.), 1977; 1 ♀, Balimila, 10 March (A.M.), 1977.

<i>Measurements</i> :	Wing	Tail	Bill
1 ♂	98	57	24
1 ♀	98	55	24

Weights : 1 ♂ 30; 1 ♀ 34.

Gonads : Testes in non-breeding condition, measuring 3.5×2.5 . Ovary markedly enlarged measuring 6.5×6.0 , largest ovum being 3.5 in diameter.

Field notes : Rather common, usually seen in pairs. Food consists of mainly insects, particularly beetles and termites, and spiders.

39. *Chrysocolaptes lucidus guttacrastatus* (Tickell)

Picus Guttacrastatus Tickell, 1833. *J. Asiat. Soc. Beng.*, 2 : 578 (Jungles of Borabhum and Dholbhum).

Common name : Eastern Larger Goldenbacked Woodpecker (English).

Material : 1 ♂, Madpad, 21 February (A.M.) 1977; 1 ♂, Govindapalle, 27 February (A.M.), 1977.

Measurements : 2 ♂ : Wing 168, 170; tail 94, 102; bill 54, 56.

Weights : 2 ♂ 158, 164.

Gonads : Testes similar in shape and size; symmetrical in position and slightly swollen, measuring 4.5×2.0 and 5.5×2.5 .

Field notes : Quite uncommon, found in pairs, moving rapidly from one tree to another in search of insects. Stomach contents : Various kinds of insects. particularly beetles, termites and spiders.

Order PASSERIFORMES

Family ALAUDIDAE

40. *Mirafra assamica affinis* Blyth

Mirafra affinis 'Jerdon' = Blyth 1845, *J. Asiat. Soc. Beng.*, : 13 : 959 (Southern part of the peninsula of India).

Common name : Madras Bush Lark (English), *Chirchira* (Local).

Material : 1 ♀, Govindapalle, 28 February (A.M.), 1977.

Measurements : 1 ♀ : Wing 83, tail 46, bill 16.

Weights : 26.

Gonads : Ovary non-breeding, slightly swollen, measuring 3.5 × 2.0.

Field notes : Very common, seen in pairs or in groups in stretches of cultivation, having small bushes, scrubby jungles and tuft of grasses. Stomach contents Seeds of grass and insects - particularly grasshoppers.

Family HIRUNDINIDAE

41. *Hirundo daurica nipalensis* (Hodgson)

Hirundo Nipalensis Hodgson, 1836, *J. Asiat. Soc. Beng.*, 5 : 780 (Nepal).

Common name : Himalayan Striated or Redrumped Swallow (English).

Material : 1 ♀, Kashipur, 1972; 8 ♂ (adult), 3 ♂ (juvenile) and 17 ♀ (adult), 2 ♀ (juvenile), Balimila, 8 and 9 March (A.M. and P.M.), 1977.

<i>Measurements</i> :	Wing	Tail	Bill
8 ♂	112, 114, 117(3), 118(3)	53/74, 54/91 57,62(3), 63/ 84, 66/91	9(3), 10(5)
18 ♀	111, 112(2), 113(3), 114 (4), 115(4), 116, 120, 121, 125	48/70, 48/72 52.52/85, 53, 58.58/88, 58/ 93, 60/78, 60/93 64, 66/92, 72/62	9(9), 10(5), 11(4)

Weights : 8 ♂ 16(8); 18 ♀ 8(10), 10(4), 11(4).

Gonads : Testes and ovaries in non-breeding condition, slightly swollen.

Field notes : Exceedingly common, seen in large flocks comprising several hundreds, moving in the fields for catching insects, also perching on telegraph wires in long rows.

Family LANIIDAE

42. *Lanius schach tricolor* (Hodgson)

(*Collurio*) *Tricolor* Hodgson, 1837, *Ind. Rev.*, 1 (10) : 446 (Nepal, restricted to Kath-

mandu, Nepal Valley, by Biswas, 1950, *J. Bombay nat. Hist. Soc.* 49 (3) : 451

Common name : Blackheaded Shrike (English).

Material : 1 ♂, Kashipur, 4 June, 1972.

Measurements : 1 ♂ : Wing 92, tail 117, bill 22.

Gonads : Testes well developed, dissimilar in size; left larger (11.0 × 7.0) and right smaller (9.0 × 6.0).

Field notes : Not very common, occurs singly or in pairs, located most of the time on exposed bush top. Stomach contents : Beetles and grasshoppers.

43. *Lanius cristatus cristatus* Linnaeus

Lanius cristatus Linnaeus, 1758, *Syst. Nat.*, 10 ed., 1 : 93 (Benghala=Bengal).

Common name : Brown Shrike (English).

Material : 1 ♂, Chitrakonda, 14 march (A.M.), 1977.

Measurements : 1 ♂ : Wing 85, tail 83, bill 20.

Weight : 28.

Gonads Testes similar in shape and size, symmetrical in position and slightly swollen, measuring 2.5 × 1.5.

Field notes : Rather common, seen in pairs on exposed bush top.

Food : Beetles and grasshoppers.

Remark : Ball (1878) reported this bird from Jaipur (=Jeypore).

Family ORIOLIDAE

44. *Oriolus xanthornus maderaspatanus* Franklin

Oriolus Maderaspatanus Franklin, 1831, *Proc. zool. Soc. Lond.* : 118 (Ganges between Calcutta and Benares, and in the Vindhyan Hills, etc., restricted to Jabalpur by Whistler & Kinnear, 1934, *J. Bombay nat. Hist. Soc.*, 36 : 585).

Common name : South Indian Blackheaded Oriole (English), *Peelak* (Local).

Material : 1 ♂, Madpad, 18 February (A M.), 1977.

Measurements : 1 ♂ : Wing 138, tail 87, bill 31.

Weight : 52.

Gonads : Testes in breeding condition; similar in shape and size; symmetrical in position, measuring 6.5 × 3.5.

Field notes : Quite common; occurs singly or in pairs, preferring Banyan and Peepul trees. Stomach contents : Figs of Banyan and Peepul.

Remarks : Majumdar (1980) reviewed the taxonomic status of *Oriolus xanthornus maderaspatanus* Franklin by taking measurements of yellow spots on secondaries 6, 7 and 8 (from outside). and maintains it as a valid subspecies. However, Ripley (1982) synonymised *O. x. maderaspatanus* with *Oriolus x. xanthornus*, without assigning any reason.

Family DICRURIDAE

45. *Dicrurus adsimilis macrocercus* Vieillot

Dicrurus macrocercus Vieillot, 1817, *Nouv. Dict. Hist. Nat*, nouv. ed., 9 : 588, based on 'le Drongolon' of Levaillant, 1805, *Ois. Afr.* 4, pl. 174 : 72 (India, restricted to Orissa by Baker, 1924, *FBI* 2 : 356).

Common name : South Indian Black Drongo or King Crow (English),

Material : 1 ♂ Kashipur, 4 June, 1972.

Measurements : 1 ♂ : Wing 142, tail 97/153, bill 26.

Gonads Testes asymmetrical in position. dissimilar in size, left more elongated (10.0 × 9.0) than right (9.0 × 6.0).

Field notes : Exceedingly common, occurs in pairs, usually located on telegraph wires, leafless tree top, on backs of grazing cattle or fence-post
Stomach contents : Beetles and grasshoppers.

46. *Dicrurus hottentottus hottentottus* (Linnaeus)

Corvus hottentottus Linnaeus, 1766, *Syst. nat.*, 12 ed, 1 : 155 (Cape of Good Hope, restricted to Sikkim by Baker, 1919, re-restricted' to Chandernagor by Stresemann, 1952, *Ibis.* 94 : 517, 521).

Common name : Haircrested Drongo (English),

Material : 1 ♂, Chitrakonda, 19 March (A. M.), 1977.

Measurements : 1 ♂ : Wing 169, tail 120 (Central), 141 (Outer), bill 44.

Weight : 88.

Gonads : Testes similar in shape and size, slightly swollen; symmetrical in position, measuring 5.5 × 4.0.

Field notes : Rather common, seen in pairs or in groups, usually moving and chasing each other or quarreling for establishing the territory.
Stomach contents : Flying insects.

Family ARTAMIDAE

47. *Artamus fuscus* Vieillot

Artamus fuscus Vieillot, 1817, *Nouv. Dict., d' Hist Nat.*, 17 : 297 (Bengal).

Common name : Ashy Swallow-Shrike (English), *Tad pitta* (Local).

Material : 2 ♂ and 1 ♀, Chitrakonda, 18 March (A.M.), 1977.

<i>Measurements</i> :	Wing	Tail	Bill
2 ♂	131, 132	54 (2)	23, 25
1 ♀	133	54	24

Weights : 2 ♂ 42, 44; 1 ♀ 52.

Gonads : Testes similar in shape and size; symmetrical in position; enlarged, each pair of testes measuring 4.5×2.5 and 4.0×2.0 . Ovary enlarged, breeding, measuring 6.5×4.0 .

Field notes : Not very common, found only in Chitrakonda; usually in pairs, occasionally in a small party comprising six to 10 individuals; observed sitting quietly on leafless tree. *Stomach contents* : Insects of various kinds.

Family STURNIDAE

48. *Sturnus malabaricus malabaricus* (Gmelin)

Turdus malabaricus Gmelin, 1789, *Syst. Nat.*, 13 ed., 1 : 816 (Malabar Coast).

Common name : Greyheaded Myna (English), *Pawei* (Local).

Material : 1 ♀, Chitrakonda, 14 March (A.M.), 1977.

Measurements : 1 ♀ : Wing 99, tail 59, bill 23.

Weight : 38.

Gonads : Ovary non-breeding, slightly swollen, measuring 4.0×3.0 .

Field notes : Ovary common, seen in large flocks in stretches of cultivation. *Stomach contents* : Seeds of Peepul (*Ficus religiosa*) and some small insects.

49. *Sturnus pagodarum* (Gmelin)

Turdus pagodarum Gmelin, 1789, *Syst. Nat.*, 13 ed., 1 : 816 (Malabar).

Common name : Blackheaded or Brahminy Myna (English), *Papata gorninki* (Local).

Material : 2 ♀, Chitrakonda, 14 and 18 March (A.M.), 1977.

Measurements : 2 ♀ : Wing 98, 99; tail 58, 59; bill 21, 22.

Weights : 2 ♀ 38 (2).

Gonads : Ovaries of both the specimens slightly swollen, measuring 6.0×4.0 and 7.5×5.0 .

Field notes : Rather common, occurs in flocks of 20 to 30 individuals

near cultivated fields. Stomach contents : Figs of Peepul and Banyan.

50 *Gracula religiosa intermedia* A. Hay

Gracula intermedia A. Hay, 1844, *Madras J. Lit. Sci.*, 13 : 157 (Cachar).

Common name : Northern Hill Myna (English), *Pahari Myna* (Local).

Material : 5 ♂ and 4 ♀, Madpad, 23 February (A.M.), 1977; 1 ♂, Balimila, 8 November, 1972; 1 ♂, Chitrakonda, 15 March (A.M.), 1977.

<i>Measurements</i> :	Wing	Tail	Bill
7 ♂	153, 155, 162, 163, 165(2), 171	71, 75(3), 76, 77, 79	28, 30(2), 31(3), 32
4 ♀	160(2), 161, 162	72, 76, 77, 80	30, 31(2), 32

Weights : 3 ♂ 160, 164, 168; 5 ♀ 170, 182, 186, 192, 194.

Gonads : Testes similar in shape and size; symmetrical in position, enlarged, breeding, measuring 3.5×2.0 — 7.5×5.5 . Ovaries somewhat swollen and measuring 8.5×6.5 — 10.5×8.5 .

Field notes : Very common, seen in pairs or in the multiple of twos, in parties comprising 30 to 40 individuals. Food : Wild figs.

Remarks : Majumdar (1981) synonymized *Gracula religiosa peninsularis* Whistler & Kinnear with *Gracula religiosa intermedia* A. Hay on the basis of size and measurement of bill. Ripley (1982) has also supported this view.

Family CORVIDAE

51. *Dendrocitta vagabunda vagabunda* (Latham)

Coracias vagabunda Latham, 1790, *Index Orn.*, 1 : 171 (India, restricted to Calcutta by Ticehurst, 1922, *Ibis* : 537).

Common name : Northeastern Tree Pie (English), *Mahalat* (Local).

Material : 1 ♀, Kashipur, 3 June 1972; 1 ♀, Madpad, 22 February (A.M.), 1977; 1 ♀, Chitrakonda, 7 November, 1972.

Measurements : 3 ♀ : Wing 147, 152, 154; tail 215, 223, 228; bill 31, 32 (2).

Weight : 1 ♀ 100.

Gonads : Ovaries somewhat swollen and granular. In one specimen (3 June) measuring 8.0×7.0 , in other (22 February) 9.5×8.0 ; largest ovum being 3.5 in diameter.

Field notes : Rather common, occurs in pairs, throughout the district.
Food : Wild figs and various kinds of insects.

52. ***Corvus splendens splendens*** Vieillot

Corvus splendens Vieillot, 1817, *Nouv. Dict. d' Hist. Nat.*, 8 : 44 (Bengal).

Common name : Indian House Crow (English), *Kowwa* (Local).

Material : 1 ♂, Kashipur, 4 June 1972.

Measurements : 1 ♂ : Wing 270, tail 165, bill 50.

Gonads : Testes dissimilar in shape and size and asymmetrical in position, left larger (20.0 × 15.0) than right (9.0 × 8.5).

Field notes : Very common, found singly, in pairs or in groups. Catholic in food habit.

53. ***Corvus macrorhynchos culminatus*** Sykes

Corvus culminatus Sykes, 1832, *Proc. zool. Soc. Lond.*, 96 (Dukhun=Poona =Pune, *vide* Whistler & Kinnear, 1932, *J. Bombay nat. Hist. Soc.*, 35 : 512).

Common name : Indian Jungle Crow (English). *Mala kaki* (Local).

Material : Unsexed (Juvenile), Kashipur, 8 June, 1972; 1 ♀, Chitrakonda, 10 November, 1972.

Measurements : 1 ♀ : Wing 280, tail 167, bill 60.

Gonads : Ovary in one specimen (8 June) rudimentary, in other (10 November) not recorded.

Field notes : Quite common, found in pairs or in small flocks comprising six to ten individuals. Stomach contents : Mainly beetles, grasshoppers and caterpillars.

Family CAMPEPHAGIDAE

54. ***Teprodornis pondicerianus pondicerianus*** (Gmelin)

Muscicapa pondiceriana Gmelin, 1789, *Syst. Nat.*, 13 ed., 1 : 939 (Coromandel).

Common name : Indian wood Shrike (English), *Karoula* (Local).

Material : 1 ♂, Chitrakonda, 16 March (A.M.), 1977.

Measurments : 1 ♂ : Wing 84, tail 64, bill 19.

Weight : 18.

Gonads : Testes similar in shape and size; symmetrical in position, measuring 3.5×2.0 .

Field notes : Common, found in pairs or in small parties, in thick foliage.

Food : Insects, particularly grasshoppers, crickets and caterpillars.

55. *Coracina novaehollandiae macei* (Lesson)

Graucalus macei Lesson, 1830, *Traite d' Orn.*, livr. 1 : 349 (Calcutta : Bangal=West Bengal).

Common name : Indian Large Cuckoo Shrike (English), *Kasya* (Local).

Material : 1 ♂, Balimila. 5 March (A.M.), 1977.

Measurements : 1 ♂ : Wing 163, tail 123, bill 29.

Weight : 80

Gonads : Testes slightly swollen, symmetrical in position, similar in shape and size, measuring 4.0×2.0 .

Field notes : Rather common, found singly or in pairs, sometimes in small groups. Stomach contents : Various types of insects.

Remark : Ball (1878) reported this bird from Jaipur (=Jeypore).

56. *Pericrocotus flammeus semiruber* Whistler & Kinner

Pericrocotus speciosus semiruber Whistler & Kinner, 1933, *J. Bombay nat. Hist. Soc.*, 36 : 340 (Sankrametta, Vizagapatam Dist., Andhra Pradesh).

Common Name : East Indian Scarlet Minivet (English).

Material : 1 ♂, Chitrakonda, 7 November, 1972; 1 ♂, Govindapalle, 1 March (A.M.), 1977.

Measurements : 2 ♂ : Wing 100(2); tail 92, 101; bill 21, 22.

Weight : 1 ♂ 29.

Gonads : Testes slightly swollen; similar in shape and size; symmetrical in position; in one specimen (1 March) measuring 4.0×2.5 , other not measured.

Field notes : Exceedingly common, seen throughout the district. Frequent small bushes, fence and scrub jungles. Stomach contents : Various types of insects and caterpillars.

Family IRENIDAE

57. *Aegithina tiphia humei* Baker

Aegithina tiphia humei Baker, 1922, *Faun. Brit. India, Birds* (2nd ed.) 1 : 342 (Raipur, Madhya Pradesh).

Common name : Central Indian Iora (English), *Shaubeega* (Local).

Material : 1 ♂, Madpad, 24 February (A.M.), 1977; 1 ♂ and 1 ♀, Chitrakonda, 15 and 16 March (A.M.), 1977.

<i>Measurements</i> :	Wing	Tail	Bill
2 ♂	64, 67	47, 51	15, 17
1 ♀	65	50	17

Weights : 2 ♂ 10. 14; 1 ♀ 12.

Gonads : Testes in rudimentary condition; symmetrical in position; measuring 1.5×1.0 and 2.0×1.5. Ovary slightly swollen, measuring 5.0×2.0.

Field notes : Not very common; found singly or in pairs, frequenting thick foliage. *Food* : Wild figs, beetles, crickets and caterpillars.

Remark : Ball (1877) reported this bird from Jaipur (=Jeypore).

58. *Chloropsis aurifrons aurifrons* (Temminck)

Phyllornis aurifrons Temminck, 1829, *Pl. Col. d' Ois., livr.* 81 pl. 484, fig. 1 (Sumatra, India=Cachar).

Common name : Northern Goldfronted Chloropsis (English), *Harewa* (Local).

Material : 1 ♂, Chitrakonda, 15 March (A.M.), 1977.

Measurements : 1 ♂ : Wing 91, tail 67, bill 23.

Weight : 14.

Gonads : Testes enlarged and in breeding condition, symmetrical in position; similar in shape and size, measuring 5.0 × 3.0.

Field notes : Not very common, found only in Chitrakonda, in pairs or in small scattered groups. *Food* : Small insects and wild fruits.

Family PYCNONOTIDAE

59. *Pycnonotus jocosus emeria* (Linnaeus)

Motacilla Emerica Linnaeus, 1758, *Syst. Nat.*, 10.ed., 1 : 187 (Benghala).

Common name : Bengal Redwhiskered Bulbul (English), *Pahari bulbul* (Local).

Material : 1 ♂ and 1 ♀, Chitrakonda, 16 and 18 March (A.M.), 1977; 1 ♀, Kashipur, 9 February, 1972.

<i>Measurements</i> :	Wing	Tail	Bill
1 ♂	81	80	17

2 ♀

81, 85

78, 80

16, 17

Weights : 1 ♂ 18; 1 ♀ 22.

Gonads : Testes somewhat enlarged and symmetrical, similar in shape and size, measuring 2.5×1.5 . Ovary in one specimen (16 March) enlarged granular, measuring 7.5×4.5 , another not recorded.

Field notes : Exceedingly common, found throughout the district, in pairs or in small parties comprising 10 to 12 individuals, in agricultural fields and its vicinity. Stomach contents : Wild fruits and various kinds of insect.

60. *Pycnonotus cafer wetmorei* Deignan

Pycnonotus cafer wetmorei nom. nov. Deignan, 1960, in Peters, J. L., Check list of Birds of the world, Vol. 9 : 236.

Common name : Orissa Redvented Bulbul (English), *Bulbul* (Local).

Material : 1 ♂ and 1 ♀, Kashipur, 5 June, 1972; 7 ♂ and 5 ♀, Madpad, 19, 23 and 24 February (A.M. Noon and P.M.), 1977.

Measurements:	Wing	Tail	Bill
11 ♂	86,90,91(2),92,93 (2) 94(2), 95,97	76, 78, 80, 82(2), 83,84,85,86(2),88	18,19(3), 20(6),21
9 ♀	87,88(2),90(2),92 (3), 94	77(2), 78(2),81, 82, 84,85, 86	18(2),19 (5),20(2)

Weights : 8 ♂ 24, 28(2), 30(5); 7 ♀ 24,26(4), 28, 30.

Gonads : Testes in two specimens (19 February) rudimentary; in another three specimens (19 February) slightly swollen, measuring 2.5×1.5 — 3.5×2.0 , while in others, enlarged, and measuring 8.0×5.0 — 10.0×7.5 ; in one specimen (5 June) highly developed, asymmetrical in position and dissimilar in shape, left 11.0×6.5 and right 8.0×6.0 . Ovaries in three specimens (19 February) rudimentary, while in others well-developed and in breeding condition, measuring 5.0×4.0 — 7.5×6.0 .

Field notes : Very common, in pairs, or in a small parties comprising six to ten individuals, frequenting small bushes, fence and scrub jungles. Food : Small insects.

Family MUSCICAPIDAE

Subfamily TIMALIINAE

61. *Pellorneum ruficeps ruficeps* Swainson

Pellorneum ruficeps Swainson, 1832, *Faun. Boreali-Americana*, 487 (India=Coonoor,

Nilgiris=Tamil Nadu, restricted by Deignan, 1947, *Smithson. Misc. Coll.*, 107).

Common name : Peninsular Spotted Babbler (English).

Material : 1 ♂ and 1 ♀, Kashipur, 6 June, 1972.

<i>Measurements</i> :	Wing	Tail	Bill
1 ♂	74	68	17
1 ♀	71	62	18

Weights : 1 ♂ 22; 1 ♀ 24.

Gonads : Testes slightly swollen, dissimilar and symmetrical in position, left larger (6.0×3.0) than right (5.0×5.0). Ovary minute.

Field notes : Very common, seen in pairs, or in groups; frequenting small bushes, fence and gardens. *Stomach contents* : Small insects.

62. *Dumetia hyperythra hyperythra* (Franklin)

Timalia hyperythra Franklin, 1831, *Proc. zool. Soc. Lond.*, : 118 (Ganges near Benares).

Common name : Rufousbellied Babbler (English).

Material : 2 ♂, Kashipur, 6 June, 1977.

Measurements : 2 ♂ : Wing 57, 58; tail 59, 65; bill 14(2).

Weight : Not Recorded.

Gonads : Testes in both the specimens well developed; in one similar in shape and size, measuring 4.5×3.5.; while in others dissimilar in size, left slightly larger (4.5×3.5) than right (3.5×3.0).

Field notes : Quite common, occurs in pairs or in groups, inhabiting small bushes and gardens. *Stomach contents* : Insects, nymphs and caterpillars.

63. *Chrysomma sinense sinense* Gmelin

Parus sinensis Gmelin, 1789, *Syst. Nat.*, 13 ed., 1 : 1012 (China).

Common name : Yellow-eyed Babbler (English), *Gulab Chashm* (Local).

Material : 1 ♂ and 1 ♀, Kashipur, 7 June, 1972; 1 ♂, Madpad, 19 February (A. M.), 1977; 1 ♂ and 1 ♀, Govindapalle. 1 March (A.M.), 1977; 6 ♂ and 4 ♀, Chitrakonda, 15 - 17 March (A.M. and P. M.), 1977.

<i>Measurements</i> :	Wing	Tail	Bill
9 ♂	64(2), 66, 67(2), 68(2), 70, 71	84, 86, 87(2); 88(2), 89, 90, 92	15(3), 16 (5), 17

6 ♀	65(4), 66, 67	78, 83(2), 85, 88(2)	14(2), 15 (4)
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Weights : 7 ♂ 14, 16(4), 18(2); 5 ♀ 14(2), 16 (2), 18.

Gonads Most of the testes in non-breeding condition, measuring 1.5 — 3.0 × 1.0 × 2.0, excepting the specimen of 7 June, where highly developed, dissimilar in size and shape, left larger (5.0 × 4.0) than right (4.5 × 3.5). Ovaries in most of the specimens in non-breeding condition, measuring 2.5 — 4.5 × 2.0 — 3.5; in one specimen (7 June) well developed, (7.5 × 5.0).

Field notes : Very common, occurs in groups of 10 to 20 individuals. Perches on bushes, fence, hedge and garden. Stomach contents : Grasshoppers, caterpillars and other insects.

64. *Turdoides striatus orissae* Jerdon

Turdoides striatus orissae Jerdon see Ripley, 1969. *J. Bombay nat. Hist. Soc.*, 66 : 168 (Barkot, alt. 120 m, Bamra, Sambalpur dist. Orissa).

Common name : Orissa Jungle Babbler (English).

Material : 1 ♂ and 1 ♀, Madpad, 23 February (A.M. and P.M.), 1977; 2 ♂, Balimila, 7 March (A.M.), 1977.

<i>Measurements</i> :	Wing	Tail	Bill
3 ♂	99, 103(2)	98, 99, 104	24, 25(2)
1 ♀	103	104	25

Weights : 3 ♂ 60, 66, 68; 1 ♀ 78.

Gonads : Testes similar in shape, symmetrical in position and enlarged (5.5 — 7.5 × 3.0 — 4.5). Ovary granular, enlarged (12.5 × 6.5).

Field notes : Exceedingly common; occurs in small parties of six to ten individuals, running about on the ground or perching on scrub jungles. Stomach contents : Insects.

65. *Alcippe poiocephala brucei* Hume

Alcippe brucei Hume, 1870, *J. Asiat. Soc. Beng.*, 39 : 122 (Mahabaleshwar).

Common name : Bombay Quaker Babbler (English).

Material : 1 ♂ and 1 ♀ Govindapalle, 27 February (A.M.), 1977; 1 ♀, Liligumma. 6 June, 1972; 1 ♀, Kashipur, 8 June, 1972; 1 ♀, Chitrikonda, 16 March (A.M.), 1977.

<i>Measurements :</i>	Wing	Tail	Bill
1 ♂	72	66	15
4 ♀	69, 70, 73, 75	64, 65, 66, 68	15, 16, 17(2)

Weights : 1 ♂ 18; 2 ♀ 14, 18.

Gonads : Testes similar in shape and size. symmetrical in position and enlarged, measuring 6.5×4.0 . Ovary in one specimen (27 February) not well developed (4.5×3.5); in two others (8 June, 16 March) well developed (6.0×3.0 and 7.5×5.0); condition of the fourth specimen (6 June) not recorded.

Field notes : Very common, seen in pairs, moving about quietly on lower branches of trees, on bushes or scrub jungle. Stomach contents : Insects larvae and mutilated beetles.

Subfamily MUSCICAPINAE

66. *Muscicapa parva albicilla* Pallas

Muscicapa Albicilla Pallas, 1811, *Zoogr. Rosso-Asiat.*, 1 : 462, Aves, pl. 1 (Dauria).

Common name : Eastern Redbreasted Flycatcher (English), *Yerra eda pitta* (Local).

Material : 2 ♀ , Govindapalle, 26 February and 2 March (A.M.), 1977; 1 ♂ , Balimila, 11 March (A.M.) 1977; 1 ♀ , Chitrakonda, 15 March (P.M.), 1977.

<i>Measurements :</i>	Wing	Tail	Bill
2 ♂	70(2)	51, 52	12, 13
2 ♀	69, 70	49, 51	13(2)

Weights : 2 ♂ 10(2); 2 ♀ 10, 11.

Gonads : Testes minute and in non-breeding conition. Ovaries slightly swollen ($2.0 - 3.5 \times 1.5 - 2.0$).

Field notes : Not very common; occurs singly or in pairs, often in the mixed hunting parties, searching for caterpillars and insects among the foliage. Stomach contents : Insects and larvae.

67. *Muscicapa poliogenys vernayi* (Whistler)

Cyornis poliogenys vernayi Whistler, 1931, *Bull. Brit. Orn. Cl.*, 52 : (Sankrametta, 3500 ft., Vizagapatam dist., Eastern Ghats, Andhra Pradesh).

Common name : Peninsular Brook's Flycatcher (English).

Material : 1 ♂ , Govindapalle, 27 February (A.M.), 1977.

Measurements : 1 ♂ : Wing 75, tail 57, bill 15.

Weight : 14.

Gonads : Testes in non-breeding condition, similar in size and shape, symmetrical in position, measuring 2.5×1.5 .

Field notes : Rather uncommon; moves singly on lower branches in shady place. *Stomach contents* : Beetles.

68. *Muscicapa rubeculoides rubeculoides* (Vigors)

Phoenicurus rubeculoides Vigors, 1831, *Proc. zool. Soc. Lond.* : 35 (Darjeeling).

Common name : Bluethroated Flycatcher (English).

Material : 1 ♂, Govindapalle, 27 February (P.M.) 1977.

Measurements : 1 ♂ : Wing 74, tail 57, bill 15.

Weight : 12.

Local name : Not recorded.

Gonads : Testes similar in shape and size, symmetrical in position and enlarged (3.5×2.0).

Field notes : Not very common, occurs singly or in pairs; prefers shady places. *Stomach contents* : Insects, larvae, and beetles.

69. *Muscicapa tickelliae tickelliae* (Blyth)

C. (yornis) Tickelliae Blyth, 1843, *J. Asiat. Soc. Beng.*, 12 : 941 (Central India=Borabhum=Barahabhum, Purulia district, West Bengal).

Common name : Tickell's Redbreasted Flycatcher (English).

Material : 1 ♂, Govindapalle, 20 February (A.M.), 1977.

Measurements : 1 ♂ : Wing 74, tail 62, bill 15+.

Weights : 14.

Gonads : Testes in non-breeding condition, slightly swollen, similar in size and shape and symmetrical in position (2.5×1.5).

Field notes : Not very common, seen in pairs; lives in shady, most places, moving about on small bushes or lower branches of trees. *Stomach contents* : Some mutilated beetles.

70. *Muscicapa thalassina thalassina* Swainson

Muscicapa thalassina Swainson, 1838, *Nat. Library, Flycatchers*, 21 : 252 (India).

Common name : Verditer Flycatcher (English).

Material : 1 ♂, Chitrakonda, 9 December, 1977.

Measurements : 1 ♂ : Wing 89, tail 73, bill 13.

Weight : Not recorded.

Gonads : Condition of gonads not recorded.

Field notes : Very common, seen in pairs, sometimes in parties of five or six, prefers shady, moist places. *Stomach contents* : Beetless.

71. *Culicicapa ceylonensis calochrysea* Oberholser

'*Chyptolopha cinereocapilla* (Vieillot)' Hutton, 1848, *J. Asiat. Soc. Beng.*, 17 : 689 (Himalayas). *Nom. nud. Culicicapa ceylonensis calochrysea* oberholser, 1923, *Smith. Misc. Coll.*, 76 : 8 (Quaymoo Choung=Left bank of Thaungyin River, lat. 17° 15' N., Amherst Dist., Tenasserim).

Common name : Northern Greyheaded Flycatcher (English).

Material : 1 ♂, Madpad, 24 February (A.M.), 1977.

Measurements : 1 ♂ : Wing 65. tail 56, bill 13.

Weight : 6.

Local name : Not recorded.

Gonads : Testes non-breeding, minute.

Field notes : Rather uncommon, occurs singly or in pairs, frequenting small bushes and scrub jungles, *Food* : Largely insects.

72. *Rhipidura albicollis orissae* Ripley

Rhipidura albicollis orissae Ripley, 1955, *Proc. Biol. Soc.*, Washington, 68 : 42 (Toda, Bonai, Orissa).

Common name : Orissa Whitethroated Fantail Flycatcher (English).

Material : 1 ♂. Kashipur, 7 June, 1972.

Measurements : 1 ♂ : Wing 73; tail 88, bill 14.

Gonads : Testes rudimentary, in non-breeding condition, similar in size and shape, symmetrical in position, measuring 1.5×1.0.

Fields notes : Rather uncommon, found in pairs, frequenting small bushes, gardens, orchards and scrub jungles. *Food* : Largely insects.

Subfamily MONARCHINAE

73. *Hypothymis azurea styani* (Hartlaub)

Siphia styani Hartlaub, 1898, *Abh. Nat. Ver. Bremen*, 16 : 248 (Harhow, Hainan).

Common name : Indian Blacknaped Flycatcher (English).

Material : 1 ♂, Kashipur, 9 June, 1972.

Measurements : 1 ♂ : Wing 75, tail 71, bill 16.

Local name : Not recorded.

Gonads : Testes in non-breeding condition, slightly swollen.

Field notes : Quite common, found singly, sometimes in pairs, in shady places, feeding on flying insects.

Subfamily SYLVIINAE

74. *Prinia hodgsonii hodgsonii* Blyth

Pr. (inia)Hodgsonii Blyth, 1844, *J. Asiat. Soc. Beng.*, 13 : 376, new name for *Prinia gracilis* Franklin, 1831, not *Sylvia* (= *Prinia*) *gracilis* Lichtenstein, 1823; *Prinia gracilis* Franklin, 1831, *Proc. zool. Soc. Lond.*, : 119 (Mirzapur District, restricted by Ticehurst and Whistler, *Ibis*, 1933 : 763).

Common name : Franklin's Ashy-grey Wren-Warbler (English), *Putki* (Local).

Material : 1 ♂, Madpad, 20 February (A.M), 1977; 1 ♂, Govindapalle, 28 February (A.M.), 1977; 2 ♂, Balimila, 8 and 9 March (A.M.), 1977; 4 ♂, Chitrakonda, 15 - 18 March (A.M. and P.M.), 1977.

Measurements : 8 ♂ : Wing 47, 48(2), 49(3), 50, 52; tail 49+, 53, 54(2), 55, 56(2), 63; bill 12(5), 13(3).

Weights : 8 ♂ 4(2), 6(6).

Gonads : Gonads in three specimens (20 February, 16 March and 18 March) slightly swollen (1.5 — 2.5 × 1.0 — 1.5); in the remaining five well-developed, symmetrical in position, equal in shape and measured 3.0 — 4.5 × 2.0 — 3.0.

Field notes Exceedingly common, occurs in pairs or in small groups in orchard, fence and in secondary jungle.

75. *Prinia buchanani* Blyth

P. (rinia) Buchanani Blyth, 1844, *J. Asiat. Soc. Beng.*, 13 : 376, new name for *Prinia rufifrons* Jerdon, 1840, *nec Prinia rufifrons* Ruppell, 1835, *Prinia rufifrons* Jerdon, 1840, *Madras J. Lit. Sci.*, 11 : 4 (neighborhood of Jalna, northwestern Hyderabad).

Common name : Rufousfronted Wren-Warbler (English).

Material : 1 ♀, Balimila, 8 March (A.M), 1977; 1 ♀, Chitrakonda, 15 March (A.M.), 1977.

Measurements : 2 ♀ : Wing 46, 47; tail —, 50; bill 12, 13.

Weights : 2 ♀ 4(2).

Gonads : Ovaries of both specimens very small and rudimentary,

Field notes : Very common, occurs singly or in pairs, in orchards, fence and secondary jungles like the preceding bird. Stomach contents : Small insects and worms.

76. *Orthotomus sutorius guzuratus* (Latham)

Sylvia guzurata Latham, 1790, *Index Orn.*, 554 (Guzerat=Gujarat).

Common name : Indian Tailor-Bird (English).

Material : 1 ♂ and 1 ♀, Kashipur, 6 June, 1972; 1 ♂, Chitrakonda, 18 March (A.M.), 1977.

<i>Measurements</i> :	Wing	Tail	Bill
2 ♂	50, 53	42, 58	16, 17
1 ♀	46	39	15

Weight : 1 ♂ 8.

Gonads : Testes in one specimen (6 June) slightly swollen whereas in other (18 March), somewhat enlarged, symmetrical in position, similar in shape and size (5.0 × 3.0). Ovary enlarged and granular (8.0 × 4.0).

Field notes : Rather common, found singly or in pairs, moving quietly among bushes, hedges, fence and lower branches of small trees. Food : Small insects and spiders.

77. *Acrocephalus dumetorum* Blyth

Acrocephalus dumetorum Blyth, 1849, *J. Asiat. Soc. Beng.*, 18 : 815 (No Locality=Calcutta, see Biswas, 1962, *J. Bombay nat. Hist. Soc.*, 59 : 410),

Common name : Blyth's Reed Warbler (English), *Kumpa jitta* (Local).

Material : 1 ♂, Govindapalle, 28 February (P.M.), 1977; 1 ♂, Chitrakonda, 15 March (A.M.), 1977.

Measurements : 2 ♂ : Wing 64, 65; tail 51, 55; bill 17, 18.

Weights : 2 ♂ 8, 10.

Gonads : Testes of both specimens in non-breeding condition, similar in shape and symmetrical in position, measuring 2.0 × 1.0 and 2.5 × 1.5.

Field notes : Uncommon, occurs singly or in pairs, sometimes in small groups in tall reed grasses. Stomach contents : Insects, particularly caterpillars, beetles and grasshoppers.

78. *Copsychus saularis saularis* (Linnaeus)

Gracula Sularis Linnaeus, 1758, *Syst. Nat.*, 10 ed., 1 : 109 (Asia=Bengal).

Common name : Indian Magpie-Robin (English), *Serela-gadu* (Local).

Material : 1 ♀, Chitrakonda, 16 March (A.M.), 1977.

Measurements : 1 ♀ : Wing 91, tail 75, bill 20.

Weight : 26.

Gonad : Ovary in breeding condition, well developed (8.5 × 4.0).

Field notes : Exceedingly common, occurs singly or in pairs, moving among small branches of trees, hedges, and occasionally on the ground.

Stomach contents : Insects of various groups.

79. *Copsychus malabaricus indicus* (Baker)

Kittacincla malabarica indica Baker, 1924, *Fauna Brit. Ind.*, Birds 2 : 118 (Bhutan Duars).

Common name : Indian Shama (English), Shama (Local).

Material : 2 ♂, Madpad, 21 and 23 February (A.M.), 1977.

Measurements : 2 ♂ : Wing 94, 96; tail 157, 181; bill 19, 20.

Weights : 2 ♂ 30(2).

Gonads : Testes of both specimens slightly swollen, symmetrical in position and similar in shape, measuring 3.0 × 1.5 and 4.5 × 2.5.

Field notes : Common, seen singly or in pairs, on bushes, fence-posts etc. Stomach contents : Insects.

Subfamily TURDINAE

80. *Saxicoloides fulicata erythrura* (Lesson)

Turdus (Saxicoloides) erythrurus Lesson, 1832, in Belanager, *Voy. Ind. - Orient*, Zool., pt. 4 : 270 (Bengale=Bengal).

Common name : Bengal Black Robin (English), *Kalchuri* (Local).

Material : 2 ♂, Madpad, 21 and 24 February (A.M.), 1977; 4 ♂ and 2 ♀, Balimila, 6 - 8 March (A.M. and P.M.), 1977; 1 ♀, Chitrakonda, 17 March (A.M.), 1977.

<i>Measurements</i> :	Wing	Tail	Bill
6 ♂	70(2), 71(3), 74	58, 61, 62, 63(2), 68	16(3), 17(3)
3 ♀	68(2), 69	57, 58, 60	15(3)

Weights : 6 ♂ 16(3)·17, 18(2); 3 ♀ 16(2), 18.

Gonads : Testes in most of the males in breeding condition, enlarged, symmetrical and similar in shape, measuring 2.5×1.5 , 3.0×2.0 , 3.5×2.0 (2), 3.5×2.5 , 4.0×3.0 . Ovary in one (17 March) slightly swollen, measuring 2.5×2.0 ; while in other two (7 and 8 March) enlarged, measuring 6.5×4.0 and 7.0×4.5 .

Field notes : Rather common, occurs in pairs, on small bushes and hedges. **Stomach contents :** Small insects.

Remark : Majumdar (1981) first recorded this bird from Orissa.

81. *Monticola cinclorhynchus* (Vigors)

Petrocincla cinclorhyncha Vigors, 1832, *Proc. zool. Soc. Lond.*, : 172 (Himalayan Mountains=Simla).

Common name : Blueheaded Rock Thrush (English).

Material : 1 ♂, Govindapalle, 22 February (A.M.), 1977.

Measurements : 1 ♂ : Wing 105, tail 72, bill 24.

Weight : 34.

Gonads : Testes similar in shape and size, symmetrical in position and slightly swollen, measuring 5.5×3.0 .

Field notes : Not very common, occurs singly or in pairs, preferring shady moist places. **Stomach contents :** Beetles.

Remark : Majumdar (1978) first recorded this species from Orissa.

82. *Zoothera citrina cyanotus* (Jardine & Selby)

Turdus cyanotus Jardine & Selby, 1828, *Ill. Orn.*, 1, pl. 46 (Bangalore, India).

Common name : Whitethroated Ground Thursh (English).

Material : 2 ♂ and 1 ♀, Madpad, 18 and 21 February (A.M. and P.M.), 1977; 1 ♀, Kashipur, 7 June, 1972.

<i>Measurements :</i>	Wing	Tail	Bill
2 ♂	112(2)	78, 80	24, 25
2 ♀	106, 108	76(2)	22, 23

Weights : 2 ♂ 48, 52; 1 ♀ 50.

Gonads : Testes of both males slightly swollen; similar in shape and symmetrical in position, measuring 3.5×2.0 and 3.0×2.5 . Ovaries in non-breeding condition, slightly swollen, measuring 5.0×3.5 and 5.5×4.0 .

Field notes : Rather common, occurs in pairs, running about on the ground, picking insects and worms or resting on bushes in shady places. Stomach contents : Insects and worms.

Family PARIDAE

Subfamily PARINAE

83. *Parus xanthogenys aplonotus* Blyth

P. (arus) aplonotus Blyth, 1847, *J. Asiat. Soc. Beng.*, 16 : 444 (Mountains of Central India, restricted to Chaibasa, Singhbhum, Bihar, by Whistler & Kinnear, 1932, *J. Bombay nat. Hist. Soc.*, 35 : 519 - 521).

Common name : Central India Yellowcheeked Tit (English).

Material : 1 ♀, Govindapalle, 27 February (A.M.), 1977; 2 ♂, and 2 ♀, Chitrakonda, 15 and 18 March (A.M. and P.M.), 1977; 1 ♀, Kashipur, 5 June, 1977.

<i>Measurements</i> :	Wing	Tail	Bill
2 ♂	75 (2)	57, 58	11 (2)
4 ♀	67, 68, 70, 71	52, 54(2), 55	9, 11(3)

Weights : 2 ♂ 14, 6; 3 ♀ 12, 14, 16.

Gonads : Testes in non-breeding condition, symmetrical in position, similar in shape, measuring 2.5 × 2.0 and 3.0 × 2.5. Ovaries slightly swollen except specimen of 5 June in which ovary granular and enlarged (9.0 × 4.5).

Field notes : Very common; occurs in pairs or in small parties of six to ten, inhabiting gardens, cultivated fields and small bushes. Food : Insects and wild fruits and berries.

Family SITTIDAE

Subfamily SITTINAE

84. *Sitta castanea castanea* Lesson

Sitta castanea Lesson, 1830, *Traite d Orn.*, Livr. 1 : 316 (Bengale=Bengal).

Common name : Peninsular Chestnutbellied Nuthatch (English), *Siri* (Local).

Material : 1 ♀, Madpad, 20 February (A.M.), 1977; 1 ♀, Balimila, 7 March (A.M.), 1977.

Measurements : 2 ♀ : Wing 72, 75; tail 34, 38; bill 19, 20.

Weights : 14 (2).

Gonads : Ovaries slightly swollen, measuring 4.5×3.0 and 5.0×3.0 .

Field notes : Rather common, found in pairs, creeping on tree trunk searching for insects among the bark, never descending to the ground.

Stomach contents : Spiders and ants.

Family MOTACILLIDAE

85. *Anthus hodgsoni hodgsoni* Richmond

Anthus trivialis hodgsoni Richmond, 1907, in Blackwelder, *Res. in China*, (2) : 493, new name for *Anthus maculatus* Jerdon, 1864, *Bds. India*, 3 : 873.

Common name : Indian Tree Pipit (English). *Musarichi* (Local).

Material : 4 ♂ and 2 ♀, Madpad, 6 and 7 March (A.M. and P.M.), 1977; 1 ♂ and 1 ♀, Govindapalle, 27 and 28 February (A.M. and P.M.), 1977; 2 ♀, Chitrakonda, 14 and 17 March (A.M.), 1977.

<i>Measurements</i> :	Wing	Tail	Bill
5 ♂	84, 85(3), 87	58, 60, 61, 64(2)	13, 13+ 14(3)
5 ♀	78, 79, 80 81, 82	56, 58(2), 59, 60	13, 14(4)

Weights : 5 ♂ 18(2), 20, 22, 23; 5 ♀ 20(2), 22(2), 24.

Gonads : Testes in non-breeding condition, similar in shape, symmetrical in position and slightly swollen, measuring $2.0 \times 1.0(2)$, 2.5×1.5 , 3.0×2.0 , 3.5×2.0 . Ovaries also in non-breeding condition, slightly swollen, measuring $2.0 - 3.5 \times 1.0 - 2.0$.

Field notes : Common, seen in pairs or in small groups, moving about quietly in the cultivated fields; when disturbed, suddenly catapulting high up on leafless trees. Stomach contents : Insects, grass and weed-seed.

86. *Motacilla cinerea cinerea* Tunstall

Motacilla cinerea Tunstall, 1771, *Orn. Brit.*, 2 (England).

Common name : Grey Wagtail (English).

Material : 1 ♀, Madpad, 19 February (A.M.), 1977; 1 ♂, 19 March (A.M.), 1977.

<i>Measurements</i> :	Wing	Tail	Bill
1 ♂	83	88	16
1 ♀	83	—	17

Weights : 1 ♂ 16; 1 ♀ 26.

Gonads : Testes in non-breeding condition, similar in size and shape, symmetrical in position and slightly swollen, measuring 2.0×1.0 . Ovary also in non-breeding condition, slightly swollen, measuring 3.0×2.5 .

Field notes : Quite common, seen in pairs or in small scattered parties in the marshy cultivated fields. Food : Insects and larvae.

87. *Motacilla maderaspatensis* Gmelin

(*Motacilla*) *maderaspatensis* Gmelin, 1789, *Syst. Nat.*, 13 ed., 1 : 961 (Madras=Tamil Nadu).

Common name : Large Pied Wagtail (English), *Sakala sarela-gada* (Local).

Material : 1 ♂, Govindapalle, 2 March (Noon), 1977.

Measurements : 1 ♂ : Wing 100, tail 102, bill 21.

Weight : 32.

Gonads : Testes similar in shape and size, symmetrical in position and well-developed, measuring 4.5×2.0 .

Field notes : Rather common, seen in pairs or in small scattered parties, running about on the mud flats, foraging in cultivated land. Stomach contents : Insects and molluscs.

Family DICAETIDAE

88. *Dicaeum agile agile* (Tickell)

Fringilla Agilis Tickell, 1833, *J. Asiat. Soc. Beng.*, 2 : 578 (Borabhum and Dholbhum)

Common name : Indian Thickbilled Flowerpecker (English).

Material 1 ♂ and 1 ♀, Govindapalle, 26 February (A.M.), 1977.

<i>Measurements</i> :	Wing	Tail	Bill
1 ♂	63	33	10
1 ♀	57	28	9

Weights : 1 ♂ 8; 1 ♀ 9.

Gonads : Testes in breeding condition, similar in shape and size, symmetrical in position and enlarged, measuring 5.5×4.0 . Ovary also in breeding condition, markedly enlarged, measuring 7.5×5.5 .

Field notes : Rather common, occurs singly or in pairs, moving from plant to plant searching for insects. Food : Juicy part of wild figs of Peepul, Banyan and Mahua, and also small insects.

Family NECTRINIIDAE

89. *Nectarinia zeylanica sola* (Vieillot)

Cinnyris sola Vieillot, 1819, *Nouv. Dict. Hist. Nat.*, 31 : 512 (Pondicherry).

Common name : Indian Purplerumped Sunbird (English).

Material : 1 ♂ and 1 ♀, Chitrakonda, 16 March (A.M.), 1977.

Measurements :	Wing	Tail	Bill
1 ♂	56	34	.9
1 ♀	55	32	19

Weights : 1 ♂ 6; 1 ♀ 6.

Gonads : Testes in breeding condition, in shape and size, symmetrical in position and enlarged, measuring 6.0×4.5 . Ovary slightly swollen, measuring 3.5×2.5 .

Field notes Quite common, occurs in pairs, often in the mixed hunting parties, searching for insects among the foliage. Always on the move, hopping from branch to branch and flying from tree to tree. Food : Small insects and nectar from flowers.

90. *Nectarinia asiatica asiatica* (Latham)

Certhia asiatica Latham, 1790, *Index Orn.*, 1 : 288 (Gurgoan, Haryana).

Common name : Indian Purple Sunbird (English), *Thena pitta* (Local).

Material : 1 ♂, Madpad, 20 February (A.M.), 1977; 1 ♂ and 1 ♀ Govindapalle, 28 February and 1 March (A.M. and P.M.), 1977; 2 ♂, Kashipur, 4 June, 1972.

Measurements :	Wing	Tail	Bill
4 ♂	52, 55(2), 56	30, 33, 34, 35	20(3), 21
1 ♀	52	32	19

Weights : 2 ♂ 4, 6; 1 ♀ 6.

Gonads : Testes of one specimen (4 June) rudimentary while of another (4 June) slightly swollen (3.5×2.0). In other two, testes enlarged, breeding, similar in shape and symmetrical in position, measuring 6.0×5.0 and 7.0×6.0 . Ovary also in breeding condition and well-developed, measuring 4.5×3.5 .

Field notes : Common, occur in pairs, searching for caterpillars and insects among the foliage, hopping from twig to twig and from flower to flower. Food : Small insects and nectar of wild flowers.

91. *Nectarinia asiatica intermedia* (Hume)

Arachmechthra intermedia Hume, 1870, *Ibis*. : 436 (Tippera).

Common name : Assam Purple Sunbird (English).

Material : 2 ♂, Madpad, 20 February (A.M.), 1977.

Measurements : 2 ♂ : Wing 55, 56; tail 37(2); bill 22, 23.

Weights : 2 ♂ 4 6.

Gonads : Testes in non-breeding condition, rudimentary.

Field notes : Not very common, occurs singly or in pairs in orchards, fences and secondary jungle.

Remarks : Majumdar (1981) first recorded this bird from Orissa.

92. *Aethopyga siparaja seheriae* (Tickell)

Nectarinia (sic) Seheriae (Tickell), 1833. *J. Asiat. Soc. Beng.*, 2 : 577 (near Seheria in Borabhum).

Common name : Indian Yellowbacked Sunbird (English).

Material : 2 ♂, Liligumma, 6 June, 1972.

Measurements : 2 ♂ : Wing 57, 58; tail 47, 49; bill 18+, 19.

Weights : Not recorded.

Gonads : Condition of testes not recorded.

Field notes : Moving from plant to plant in pairs, searching insects among the foliage, also feeds on flower nectar.

Remarks : This bird was reported by Ali Ripley (1974) from Bamra, Sambalpur district. Now it is recorded from Koraput district, the southern most part of Orissa. Hence the distributional range of this bird is extended further south.

83. *Arachnothera longirostris longirostris* (Latham)

Certhia longirostra Latham 1970. *Index Orn.*, 1 : 299 (Bengal, Restricted to Sylhet by Baker, *J. Bombay nat. Hist. Soc.*, 28 : 124)

Common name : Little Spiderhunter (English).

Material : 1 ♀, Kashipur, 4 June, 1972.

Measurements : 1 ♀ : Wing 63, tail 38, bill 31.

Weight : Not recorded.

Gonads : Ovary in breeding condition, enlarged and granular, measuring 5.0 × 3.0.

Field notes : Not common, reported only from Kashipur. Food : Small spiders.

Remark : Majumdar (1979) recorded this bird for the first time from Orissa.

Family ZOSTEROPIDAE

94. *Zosterops palpebrosa palpebrosa* (Temminck)

Sylvia palpebrosa Temminck, 1824, *Pl. Col. d' Ois*, livr. 49, pl. 293, fig. 3 (Bengale=Bengal).

Common name : Indian White-eye (English).

Material : 1 ♂, Madpad, 21 February (A.M.), 1977.

Measurements : 1 ♂, Wing 54, tail 38, bill 11.

Weight : 8.

Gonads : Testes in non-breeding condition, similar in shape and size; symmetrical in position and enlarged, measuring 3.5×2.0 .

Field notes : Quite uncommon, frequenting in pairs in gardens, orchards and scrub jungles. Food : Nectar and small insects.

Family PLOCEIDAE

Subfamily PASSERINAE

95. *Passer domesticus indicus* Jardine and Selby

Passer indicus Jardine and Selby, 1835, *Ill. Orn.*, 3, pl. 118 (India, restricted to Bangalore by Kinnear, 1925, *Ibis* : 751).

Common name : Indian House Sparrow (English).

Material : 1 ♂, Balimila, 7 March (A.M.), 1977; 1 ♂, Chitrakonda, 15 March (P.M.), 1977; 1 ♂ and 1 ♀, Kashipur, 7 June, 1972.

<i>Measurements:</i>	Wing	Tail	Bill
3 ♂	72, 74(2)	47+, 54, 55	11, 12, 13
1 ♀	72	54	14

Weights : 2 ♂ 22(2).

Gonads : Testes in one specimen (7 March) rudimentary, while in another (4 June) slightly swollen, measuring 2.0×1.5 . In third, enlarged (4.5×2.5). Ovary slightly swollen, granular (6.0×3.5).

Field notes : Very common, occasionally invading cultivated fields in large flocks of 80 – 100 individuals. Stomach contents : Paddy, grass and weed-seeds, and some small insects.

96. *Petronia xanthocollis xanthocollis* (Burton)

Fringilla xanthocollis Burton, 1838, *Cat. Bds. Mus. Fort. Pitt. Chatham*: 23, new name for *Fringilla flavicollis* Franklin, 1831, nec *F. flavicollis* Gmelin, 1789 (Ganges between Calcutta and Benaras=Varanasi).

Common name : Indian Yellowthroated Sparrow (English), *Parsupu pitta* (Local).

Material : 1 ♂ and 1 ♀, Balimila, 5 and 11 March (A.M.), 1977.

Measurements :	Wing	Tail	Bill
1 ♂	84	53	15
1 ♀	78	48	14

Weights : 1 ♂ 18; 1 ♀ 20.

Gonads : Both specimens in breeding condition. Testes enlarged, similar in shape and size and symmetrical in position, measuring 4.0 × 3.0. Ovary enlarged, measuring 4.5 × 4.0.

Field notes : Very common, seen in large flocks (hundreds) in agricultural tracts. Food : Paddy from stubble, seeds of grass and weeds, as well as some insects.

97. *Estrilda formosa* (Latham)

Fringilla formosa Latham, 1790, *Index Orn*, 1 : 441 (India).

Common name : Green Munia (English), *Hari munia* (Local).

Material : 4 ♂ and 4 ♀, Chitrakonda, 15 - 17 March (A.M.), 1977.

Measurements :	Wing	Tail	Bill
4 ♂	48, 49 (3)	36, 37, 38, 40	11(2), 12(2)
4 ♀	48, 49(2), 50	36, 38(2), 40	11, 12(3)

Weights : 4 ♂ 8(4); 4 ♀ 8(4).

Gonads : Testes in one specimen (17 March) in breeding condition, similar in size and shape, symmetrical in position and enlarged (3.0 × 2.0), while in others in non-breeding condition, measuring 1.5 — 2.0 × 1.0 — 2.5. Ovary in one specimen (17 March) enlarged and breeding (4.5 × 3.5), in remaining specimens, in non-breeding condition and rudimentary in size.

Field notes : Not very common, found only in Chitrakonda, in flocks comprising 40—50 individuals, in thick foliage of small green bushes;

when disturbed flushing out in large numbers from the bushes. Stomach contents : Grass-and weed-seeds.

98. *Lonchura striata striata* (Linnaeus)

Loxia striata Linnaeus, 1766, *Syst. Nat.*, 12 ed., 1 : 306 (Isle of Bourbon, errore=Ceylon=Sri Lanka).

Common name : Southern Whitebacked Munia (English).

Material : 3 ♂, Belimila, 6 and 8 March (A.M.), 1977.

Measurements : 3 ♂ : Wing 55(2), 56; tail 39, 40, 41; bill 12, 13(2).

Weights : 3 ♂ 12(3).

Local name : Not recorded.

Gonads : Testes in non-breeding condition, symmetrical in position, and similar in shape, measuring 2.0 — 1.5 × 1.0 — 0.5.

Field notes : Very common, occur in flocks, comprising 30—40 individuals, in bomboo thickets by the side of cultivated fields. Stomach contents : Bamboo and jowar seeds.

Family FRINGILLIDAE

Subfamily CARDUCLINAE

99. *Carpodacus erythrinus roseatus* (Blyth)

Pyrrhula roseata 'Tickell' = Blyth, 1842, *J. Asiat. Soc. Beng.*, 11 : 461 (Sold.....in Calcutta).

Common name : Indian Rosefinch (English), *Lal tuti* (Local).

Material : 1 ♂ and 1 ♀, Balimila, 10 March (A.M.), 1977.

<i>Measurements</i> :	Wing	Tail	Bill
1 ♂	88	58	13
1 ♀	82	55	13

Weights : 1 ♂ 24; 1 ♀ 20.

Gonads : Testes in non-breeding condition and rudimentary. Ovary not so developed, measuring 2.0 × 1.5.

Field notes : Rather common; gregarious, occur in small flocks of 20-25 individuals, invading jowar crops together with Southern Blossomheaded Parakeet, *Psittacula c. cyanocephala* and Southern Whitebacked Munia, *Lonchura s. striata*. Stomach contents : Jowar seeds.

SUMMARY

1. A list of 99 species and subspecies based on collection of 315 birds belonging to 78 genera, 36 families and 12 orders from Koraput district, Orissa, India, is given.

2. The family Muscicapidae with 22 species and subspecies forms the largest group in the bird fauna of Koraput district.

3. The distributional range of one bird, the Indian Yellowbacked Sunbird, *Aethopyga siparaja seheriae* (Tickell) has been extended further south to the Koraput district.

4. In the systematic account, notes on ecology and behaviour of the birds, condition of gonads, food and feeding habits, etc., of all the species are given. In some species, the taxonomic status are also discussed.

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