INTRODUCTION

At the turn of the century, India’s jungles were teeming with wildlife, but a lethal combination of senseless shikar and thoughtless habitat destruction has led to a sharp decline in a number of species.

To check our fast depleting wildlife, the Government of India has established a number of National Parks, Sanctuaries and Game reserves all over the country. Thanks to these, many species which would have joined the “extinct” list have been assured a future. The state of Maharashtra now has 4 National Parks, 21 Wildlife Sanctuaries and one Tiger reserve.

From 1984, the Zoological Survey of India has taken up a project on the survey of the faunal resources of conservation areas within the country. The present contribution is on one such area in Maharashtra. Ali & Ripley (1968), Ellerman & Morrison-Scott (1951), Daniel (1963-75), Day (1875-78), Deoras (1981), Jayaram (1981), Murthy (1985), Prater (1980) and Smith (1943) were consulted.

Just short of 90 km northeast of Bombay, cradled in the foothills of the Sahyadris (Western Ghats) lies the Tansa Wildlife Sanctuary. The sanctuary gets its name from Tansa river which dissects the 304 sq km area into two. This area had its importance as one of the earliest trade routes between the east and central Deccan. The river valley of Vaitarna also brought some of the earliest Aryan settlers. The Greek geographer, Ptolemy, (AD 135-150) had also mentioned about this area (Gazetter of India, 1982). Mahuli fort, situated on a 762 m high hill (highest in the sanctuary) of the same name, too finds a place in history. The fortification was built by the Mughals in the early 14th century. During its long history it was captured by a succession of invaders. Today the fort lies in ruins with only the wild animals as its inhabitants.

A number of tribal villages are present within the sanctuary. The tribals are mainly the Varlis, Malhar, Mahadev Kolis and the Katkaris. The latter are Kath (catechu) makers. They till the land but quite often sell firewood, wild honey and also hunt animals.
THE STUDY AREA

Topography:

Tansa wildlife sanctuary (Fig. 1) is situated in Thane district of Maharashtra state and lies between 19°35' and 19°55' north latitude and 73°20' and 73°35' east longitude. It is about 90 km by road from Bombay. The southeastern boundary of the sanctuary adjoins the Bombay-Agra National Highway No. 3. The sanctuary can also be reached by a local train from Bombay (2 hrs journey), the alighting point being Atgaon Railway station. Tansa is just 13 km from the station. Although the road to the sanctuary is good, the transport arrangement is inadequate.

Tansa is a comparatively new sanctuary, being established in 1970. At that time its area was 216.75 sq. km, but later on in 1985 it was extended to 304.81 sq. km. This extension brought the Suryamal hill range (known tiger habitat) within the sanctuary cover. Now the sanctuary covers part of Shahpur, Vada and Mokhada talukas of Thane district.
From the steep scarps of the Sahyadris (to the NE of Tansa), the land falls through a succession of plateaus towards the north-east and further westerwards. In the northeast lies the Jowhar-Mokhada plateau at an elevation of 300-400 m, that descends further to form Vada plateau in the west (150-300 on elevation). To the southeast of Vada plateau lies the Shahpur upland at an elevation of about 300 m. This plateau country which forms the sanctuary area is dotted with a number of spurs or offshoots from the Sahyadris mountains. Besides the western spurs of the Sahyadris, a number of isolated hills are present, the prominent being Mahuli, rising at a height of 762m, being situated in the southern part of the sanctuary. A ruined fort can still be seen at the top.

**Rivers:**

Two major rivers, the Vaitarna and Tansa drain the sanctuary area, the Vaitarna is the largest. It originates from the western slopes of the Sahyadris near Trimbakeshwar in Nasik district, at an altitude of about 670 m. It traverses a distance of about 126 km before meeting the Arabian sea. This river has a mention in the Mahabharata as one of the four sacred streams. The river has a catchment area of 2,572 sq. km. In 1948, a dam was constructed to form a reservoir name Modaksagar, having a water spread area of 9.06 sq. km. Water from this reservoir is drawn off and supplied to Bombay through a 77 km long pipeline. It is also a source of hydel power. The entire Modaksagar area now comes under the sanctuary limits.

Tansa river originates near Khatdi village, traverses the sanctuary and finally meets Vaitarna. This river too has been dammed (1886) to form a reservoir having 19.42 sq. km water spread area. Water from this reservoir too is being supplied to Bombay.

**Forest:**

Tropical moist deciduous type of forest clothes the region (Dikshit, 1986) and comprises mainly of: Teak (*Tectona grandis*), Ain (*Terminalia tomentosa*), Khair (*Acacia catechu*), Haldu (*Adina cordifolia*), Kalam (*Stephegyne parvifolia*), Bibla (*Pterocarpus marsupium*), Palas (*Butea monosperma*), Dhavada (*Anogeissus latifolia*) and a few thickets of Bamboo (*Dendrocalamus strictus*).

**The Fauna:**

Tansa wildlife sanctuary contains a variety of fauna, representing 144 genera of Vertebrates. These have been listed in Appendix I along with their current status. Over 50 species of mammals are known to inhabit this sanctuary. 37 species of birds were sighted during the surveys conducted in 1984 and 1986. Tigers have been reported from Suryamal range only in the northern part of the sanctuary while leopards prefer the hilly areas. The lesser cats such as the leopard cat and palm civet are also found here but being nocturnal, are seen less frequently. The Jackal is commonly seen.
Modaksagar reservoir.
Camera shy Bonnet monkeys in Tansa sanctuary.
Four-horned antelope captivity
Of the three species of deer that are found here, the mouse deer (*Tragulus meminna*) is rarely seen. The fourhorned antelope (*Tetracerus quadricornis*) is perhaps the most interesting ungulate. The males have two extra rudimentary horns which give the animal a unique distinction of being the only four horned species in the world.

Tansa has something for the bird watchers too: Darters, egrets, storks, Jacanas, are found near the lakes, while racket-tailed drongos, golden orioles, tree pies, paradise flycatchers and many other species are seen in the nearby forest. About 37 species of birds have been sighted during the surveys.

Tansa sanctuary is the home of the muggar (*Crocodylus palustris*). It has been sighted in the Vaitarna. A few species of turtles and tortoises are found in and around the lakes. The Indian python, viper, cobra and krait also inhabit Tansa as do monitors and other lizards. The water of Tansa and Vaitarna abound with large-sized fishes like Catla, Channa and freshwater eel.

Although Tansa has an interesting variety of fauna, we think this region should be declared as a sanctuary for the four-horned antelope. This will offer complete protection for the survival of this species which is known to occur at only a few places in the Western ghats.

**Recommendations**

1. It should be declared a four-horned antelope sanctuary.
2. Attractive posters and display boards can be put up at Atgaon railway station and transport be provided for the public to take due notice of this sanctuary.
3. The zoo is presently too small and hence should be enlarged. Local fauna can be well represented here.
4. The facility of crocodile breeding at Tansa and Vaitarna reservoirs can be explored.

**Summary**

The vertebrate fauna of Tansa wildlife sanctuary (Maharashtra) was surveyed. 144 vertebrate genera were recorded from the area. Tiger was sighted from Suryamal range. Four-horned antelope is present in large numbers. The rusty spotted cat also makes its abode in this sanctuary. About 37 species of birds have been sighted during the surveys. The waters of Tansa and Vaitarna contain the Indian muggar and large-sized fishes like catla, channa and freshwater eel.

**Acknowledgements**

We are thankful to the Director, Zoological Survey of India, Calcutta for allowing us to survey the area, and to Dr. G. M. Yazdani, Officer-in-Charge, ZSI, Pune for facilities. We are also thankful to Shri K.A. Sheikh, D.CF., Shri Jalgaonkar RFO,
Forest Department, for providing transport and other facilities during night observations. Thanks are also due to Dr. A. S. Mahabal, Scientist S. D. for checking the list of bird species.

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APPENDIX—I

Class : MAMMALIA
Order : INSECTIVORA
Family : SORICIDAE

1. Suncus murinus (Linn.) House Shrew


Status : Common near human habitations.
2. **Suncus stoliczkanus** (Anderson)


   **Status:** Occasional, along river banks.

   - **Order:** CHIROPTERA
   - **Suborder:** MEGACHIROPTERA
   - **Family:** PTEROPIDAE

3. **Pteropus giganteus** (Brunnich) Flying fox

1782. *Vespertilio gigantea* Brunnich, *Dyrenes Historia* 1: 45, Bengal, India.

   **Status:** Common.

4. **Cynopterus sphinx** Vahl. Short-nosed fruit bat


   **Status:** Common.

   - **Suborder:** MICROCHIROPTERA
   - **Family:** MEGADERMATIDAE

5. **Megaderma lyra** Geoffroy Indian False Vampire


   **Status:** Occasional.

   - **Family:** RHINOLOPHIDAE

6. **Rhinolophus rouxi** Temminck Horse shoe Bat


   **Status:** Brosset (1962) reported this species from the Western Ghats.

7. **Rhinolophus lepidus** Blyth


   **Status:** Brosset (1962) reported this species from the Western Ghats.

8. **Hipposideros bicololor** (Temminck) Leaf-nosed Bat

1834. *Rhinolophus bicololor* Temminck, *Tijdschr. Natuur. Gesch.* 1, i, 19, Pl. 1, Fig. 3. Anjer Coast, Java.

   **Status:** Brosset (1962) reported this species from the Western Ghats

   - **Family:** VESPERTILIONIDAE

9. **Myotis peshwa** (Thomas)


   **Status:** Distribution of this rare species has been reported from Thana district by Brosset (1962).
10. **Pipistrellus ceylonicus** (Kelaart) Kelaart's Pipistrelle


Status: Common.

Order: **PRIMATE**  
Family: **CERCOPITHECIDAE**

11. **Macaca radiata** (Geoffroy) Bonnet macaque


Status: Common. Sighted a small troop near Tansa lake.

12. **Macaca mulatta** (Zimmermann) Rhesus macaque


Status: Introduced. Forest authorities have confirmed the release of some domesticated Rhesus monkeys in the sanctuary.

13. **Presbytis entellus** (Dufresne) Langur


Status: Common.

Order: **PHOLIDOTA**  
Family: **MANIDAE**

14. **Manis crassicaudata** Gray Indian Pangolin


Status: Occasional.

Order: **CARNIVORA**  
Family: **CANIDAE**

15. **Canis aureus** Linn. Jackal


Status: Occasional.

16. **Vulpes bengalensis** (Shaw) Indian Fox


Status: Common.

Family: **MUSTELIDAE**

17. **Lutra (Lutagale) perspicillata** I. Geoffroy Smooth-coated Indian Otter


Status: Occasional. A small group (2—3) of otters was sighted near Tansa lake by the forest officials.
Family: **Viverridae**

18. **Viverricula indica** Desmarest Small Indian Civet


Status: Common. Sighted in Tansa forest as well as Khardi village.

19. **Paradoxurus hermaphroditus** (Pallas) Common Palm Civet


Status: Common.

Family: **Herpestidae**

20. **Herpestes edwardsi** (Geoffroy) Common Mongoose


Status: Common.

21. **Herpestes smithii** Gray Ruddy Mongoose


Status: Rare. Reported from areas near Bombay by Ellerman & Morrison-Scott, 1951.

Family: **Hyaenidae**

22. **Hyaena hyaena** (Linn.). Striped Hyaena


Status: Common.

Family: **Felidae**

23. **Felis libyca ornata** Gray Indian Desert Cat


Status: Rare. One specimen was sighted in the thick forested areas in core zone by forest officials in 1983.

24. **Felis chaus** Guldenstaedt Jungle Cat


Status: Common. One specimen was sighted in the forest near Suryamal.

25. **Felis bengalensis** Kerr Leopard cat

1792. *Felis bengalensis* Kerr *Anim. Kingd.* 151, Southern Bengal,

Status: Occasional.
26. **Felis rubiginosa** Geoffroy · Rusty-Spotted Cat


Status: Rare. One specimen was sighted in the forested areas, west of Khardi village by the forest officials.

27. **Panthera pardus** (Linn.) Leopard or Panther


Status: Common

28. **Panthera tigris** (Linn.) Tiger


Status: A family of two was occasionally sighted near Suryamal range by local tribals and forest authorities in 1986.

Order: ARTIODACTYLA

Family: SUIDAE

29. **Sus scrofa** Linn. Indian Wild Boar


Status: Common.

Family: TRAGULIDAE

30. **Tragulus (Moschiola) meminna** (Frxleben) Mouse deer


Status: Occasional.

Family: CERVIDAE

31. **Muntiacus muntjac** (Zimmerrmann). Barking deer


Status: Common.

32. **Axis axis** (Erxleben) Chital or Spotted deer


Status: Common. A small herd was sighted in the forested areas, west of Khardi village.

33. **Cervus (Rusa) unicolor** Kerr · Sambar


Status: Occasional.
Family: **BOVIDAE**

34. **Tetracerus quadricornis** (Blainville) Chowsingha or Four horned antelope


Status: Occasional. A pair shot near Shahapur by poachers in 1986, was examined.

35. **Boselaphus tragocamelus** (Pallas) Nilgai or Blue Bull


Status: Reported to inhabit the bordering forested areas of the sanctuary. Forest authorities and tribals have confirmed the occurrence of a small group.

**Order: LAGOMORPHA**

Family: **LEPORIDAE**

36. **Lepus nigricollis** Cuvier Black-naped Hare


Status: Common.

**Order: RODENTIA**

Family: **SCIURIDAE**

37. **Funambulus pennanti** Wroughton Five striped Palm Squirrel


Status: Common.

38. **Funambulus t. tristriatus** (Waterhouse) Jungle striped Squirrel


Status: Common. (One specimen, Reg. No. M/461 was collected from bordering locality-Jawahar).

**Family: HYSTRICIDAE**

39. **Hystrix indica** Kerr Indian Porcupine


Status: Common.

**Family: MURIDAE**

40. **Tatera indica indica** (Hardwicke) Indian Gerbil or Antelope rat


Status: Commonly seen in paddy fields in the buffer zone.
41. **Vandeleuria oleracea** (Benett) Longtailed Tree mouse

1832. *Mus oleracea* Bennett, *FZS*, 121, Deccan, India.

Status: Occasional.

42. **Millardia m. meltada** (Gray) Metad or softfurred field rat


Status: Occasional.

43. **Rattus blanfordi** (Thomas) White tailed wood rat


Status: Occasional.

44. **Rattus rattus rufescens** (Gray) House rat


Status: Common.

45. **Mus musculus castaneus** (Waterhouse) House mouse


Status: Common.

46. **Mus musculus homourus** Hodgson


Status: Common.

47. **Mus booduga** (Gray) Indian Pygmy Field mouse


Status: Common.

48. **Mus dunnii** (Wroughton)


Status: Occasional.

49. **Mus (Pyromys) platythrix platythrix** Bennett Indian Spiny mouse

1832. *Mus platythrix* Bennett, *PZI*, 121, Deccan, India.

Status: Occasional.

50. **Mus (Pyromys) saxicola** Elliot


Status: Occasional.
51. *Golunda ellioti ellioti* Gray Indian Bush rat

Status: Common. One specimen (Reg. No. M/422) was collected from paddy field near the bordering area of Jawhar.

52. *Golunda ellioti gujarati* Thomas

Status: Occasional. Two specimens (Reg. No. M/344 & M/345) were collected from bushes near the bordering areas.

53. *Bandicota bengalensis kok* Gray Lesser Bandicoot or Indian mole rat

Status: Common.

54. *Bandicota indica indica* (Bechstein) large Bandicoot Rat

Status: Common.

Class: **Aves**  
Order: **Podicipediformes**  
Family: **Podicipedidae**

1. *Podiceps ruficollis capensis* Salvadori Dabchick

Status: Common.

Order: **Pelecaniformes**  
Family: **Phalacrocoracidae**

2. *Phalacrocorax nigerr* (Viellot) Little Cormorant

Status: Resident.

3. *Anhinga rufa melanogaster* Pennant Darter or Snake Bird

Status: Common.

Order: **Ciconiiformes**  
Family: **Ardeidae**

4. *Ardea g. grayii* (Sykes) Indian Pond Heron

Status: Common in ponds.
5. **Bubulcus ibis coromandus** (Boddaert) Cattle Egret

1783. *Cancrorn coromanda* Boddaert Table. Pl. enlum : 54.

Status: Common.

Family: **CICONIIDAE**

6. **Egretta g. garzetta** (Linn.) Little Egret


Status: Common.

7. **Anastomus oscitans** (Boddaert) Openbill Stork

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

Status: Common.

Family: **THRESKIORNITHIDAE**

8. **Pseudibis papillosa papillosa** (Temminck) Indian Black Ibis

1824. *Ibis papillosa* Temminck Pl. Col. Livr. 51 pl. 304, India.

Status: Common.

Order: **ANSERIFORMES**

Family: **ANATIDAE**

9. **Tadorna ferruginea** (Pallas) Brahminy Duck

1764. *Anas ferruginea* Pallas, Vroeg, Cat. d. Ois, Adumbr : 5, Tartary.

Status: Winter migratory.

10. **Anas c. crecca** Linn Common Teal


Status: Common.

Order: **FALCONIFORMES**

Family: **ACCI~ITRIDAE**

11. **Accipter badius dussumieri** (Temminck) Indian Shikra


Status: Common.

Order: **GALLIFORMES**

Family: **PHASIANIDAE**

12. **Pavo cristatus** Linnaeus Indian Peafowl


Status: Common.
Order: GRUIFORMES
Family: RALLIDAE

13. *Amaurornis phoenicurus chinensis* (Boddaert) White Breasted water hen

1783. *Fulica chinensis* Boddaert, *Table Pl. enlum.*, 54, China.
Status: Common.

14. *Porphyrio porphyrio poliocephalus* (Latham) Indian Purple Moorhen

Status: Common.

15. *Fulica a. atra* Linn, Coot

Status: Common.

Order: CHARADRIIFORMES
Family: JACANIDAE

16. *Hydrophasianus chirurgus* (Scopoli) Pheasant-tailed Jacana

Status: Common.

17. *Metopidius indicus* (Latham) Bronzewinged Jacana

Status: Common.

Order: PSITTACIFORMES
Family: PSITTACIDAE

18. *Psittacula krameri manillensis* (Bech.) Roseringed Parakeet

Status: Common.

Order: CUCULIFORMES
Family: CUCUKIDAE

19. *Eudynamys s scolopacea* (Linn.) Koel

Status: Common.

20. *Centropus s. sinensis* (Stephens) Crow-pheasant

Status: Common.
Order: STRIGIFORMES
Family: STRIYIDAE

21. Tyto alba stertens Hartert Indian Barn Owl

Status: Common.

22. Bubo bubo bengalensis (Franklin) Great Horned Owl

Status: Common.

Order: CORACIFORMES
Family: ALCECEDIDAE

23. Ceryle rudis leucomelanura Reichbach Pied Kingfisher

Status: Common.

24. Alcedo atthis bengalensis Gmelin Small Blue Kingfisher

Status: Common.

25. Haloydon smyrensis fusca (Boddaert) White breasted Kingfisher

1783. *Alcedo fusca* Boddaert *Table Pl. enlum.* 54, Malabar Coast.
Status: Common.

Family: MEROPIDAE

26. Merops o. orientalis Latham Common Green Bee-eater

Status: Common.

Order: PASSERIFORMES
Family: ORIOLIDAE

27. Oriolus oriolus kundoo Sykes Golden Oriole

Status: Common.

Family: DICRURIDAE

28. Dicrurus adsimilis albirictus (Hodgson) Black Drongo

Status: Common.
29. **Dicrurus paradiseus grandis** (Gould) Racket-tailed Drongo


Status: Common.

Family: **STURNIDAE**

30. **Acridotheres t. tristis** (Linn) Indian Myna


Status: Common.

Family: **PYCNONOTIDAE**

31. **Pycnonotus c. cafer** (Linn.) Redvented Bulbul


Status: Common.

32. **Pycnonotus jocosus fuscicaudatus** (Gould) Redwhiskered Bulbul


Status: Common.

Family: **MUSCICAPIDAE**

33. **Pellorneum r. ruficeps** Swainson Spotted Babbler


Status: Common.

34. **Terpsiphone p. paradisi** (Sinn.) Paradise flycatcher


Status: Common.

Family: **CORVIDAE**

35. **Dendrocitta vagabunda pallida** (Blyth) Tree Pie


Status: Common.

Family: **MOTACILLIDAE**

36. **Motacilla c. caspica** (Gmelin) Wagtail

Status: Winter migratory.

Family: **PLOCEDIAE**

37. **Ploceus phillipinus phillipinus** (Linn.) Indian Baya


Status: Common.
Class : REPTILIA  
Order : LORICATA  
Family : CROCODILIDAE

1. Crocodylus palustris Lesson Marsh crocodile  
Status : Occasionally seen in Vaitarna river.

Order : TESTUDINES  
Family : EMYDIDAE

2. Geomyda trijuga (Schweigger) Pond Tortoise  
Status : Occasionally trapped in fishermen's net

Order : SQUAMATA  
Suborder : SAURIA  
Family : GEKKONIDAE

3. Hemidactylus brooki Gray House Gecko  
Status : Common.

4. Hemidactylus maculatus Dum & Bibr. Rock Gecko  
Status : Occasional.

Family : AGAMIDAE

5. Calotes versicolor (Daudin) Common Calotes  
Status : Occasionally seen.

Family : SCINCIDAE

6. Mabuya macularia Blyth Skink  
Status : Common.

Family : VARANIDAE

7. Varanus bengalensis Linnaens Common Monitor  
1758. Lacerta bengalensis Linnaeus, Syst. Nat. ed. x : 201, India. 
Status : Occasionally seen,
Suborder: SERPENTES
Family: TYPHLOPIDAE

8. **Typhlops braminus** Daudin Common Worm snake


Status: Occasional,

9. **Python molurus** (Linnaeus) Indian Python


Status: Rarely seen.

10. **Eryx johnii** (Russell) Red or Blunt-tailed sand boa


Status: Occasionally seen.

11. **Fryx conicus** (Schn.) Common sand boa


Status: Common.

Family: COLUBRIDAE

12. **Elaphe helena** Daudin Trinket snake


Status: Occasionally met with.

13. **Ptyas mucosus** (Linn.) Dhaman or rat snake


Status: Common.

14. **Argyrogena fasciolatus** (Shaw) Banded Racer


Status: Occasionally seen.

15. **Lycodon aulicus** (Linn.) Wolf snake


Status: Occasionally seen.

16. **Oligodon taeniolatus** (Jerdon) Kukri snake


Status: Occasional.
17. *Dendrelaphis tristis* (Daudin) Indian Bronze-back Tree snake

Status: Occasional.

18. *Natrix piscator* (Schn.) Checkered Keelback

Status: Common.

19. *Ahaetulla nasota* (Lacépède) Vine snake

Status: Occasionally seen.

Family: **Elapidae**

20. *Bungarus caeruleus* (Schn.) Common Indian Krait

Status: Occasionally seen.

21. *Naja naja* (Linn.) Common Cobra

Status: Occasionally seen.

Family: **Viperidae**

22. *Vipera russelli* Shaw, Russell's Viper

Status: Occasionally seen.

23. *Echis carinatus* (Schn.) Saw-scaled Viper

Status: Common.

24. *Trimeresurus gramineus* (Shaw) Bamboo Pit Viper

Status: Rare in the region.

Class: **Amphibia**
Order: **Salamandrinae**
Family: **Bufonidae**

1. *Bufo melanostictus* Schn. Common Indian Toad

Status: Common.
Family: Microhylidae

2. Microhyla ornata (Dum & Bibr.) Ornate Microhylid

Status: Occasionally seen.

Family: Ranidae

3. Rana cyanophlyctis Schn. Skipper frog

Status: Common.

4. Rana tigrina Daudin Bull frog

Status: Common.

5. Rana limnocharis Weigmann Indian Cricket frog

Status: Occasional.

The following species of fishes are collected from Tansa and Vaitarna rivers.

Order: Osteoglossiformes
Family: Notopteridae

1. Notopterus notopterus (Pallas)

1769. Gymnotus notopterus Pallas, Spicil. Zool. Peters burg 7 p. 40, pl. 6, fig. 2. Type-loc Indian Ocean.

Order: Cypriniformes
Family: Cyprinidae

2. Barilius bendelisis (Ham.)


3. Danio aequipinnatus (McClelland)

1839. Perilampus aequipinnatus McClelland, Asiatic Res. Calcutta, 19, p.3, pl. 60. Fig 1. Type-loc: Assam.

4. Rasbora daniconius (Hamilton)


5. Labeo rohita (Hamilton)

6. **Labeo boggut** (Sykes)


7. **Catla catla** (Ham.)


8. **Cirrhus mrigala** (Ham.)


9. **Puntius amphibius** (Val.)


10. **Puntius sarana** (Ham.)


11. **Puntius ticto** (Ham.)


12. **Garra gotyla** (Gray)


13. **Garra mullya** (Sykes)


Family: **Cobitidae**

14. **Lepidocephalus** (*Lepidocephalichthys*) **guntea** (Ham)


15. **Noemacheilus denisonii** Day


16. **Oreonecotes evezardi** (Day)


Order: **Siluriformes**

Family: **Bagridae**

17. **Mystus seenghala** (Sykes)

18. *Aorichthys aor* (Ham.)


Family: HETEROPNEUSTIDAE

19. **Heteropeustes fossilis** (Bloch)


Order: Atheriniformes
Family: Poeciliidae

20. **Gambusia affinis** (Baird and Girard)


Family: Cyprinodontidae

21. **Aplocheilus lineatum** (Val.)


Order: Channiformes
Family: Channidae

22. **Channa marulius** (Ham.)


23. **Channa punctatus** (Bloch)


Order: Perciformes
Family: Channidae

24. **Ambassis ranga** (Ham.)


Family: Gobiidae

25. **Glossogobius giuris** (Ham.)


Order: MASTACEMBELIFORMES
Family: Mastacembelidae