

Annexes

Annex I

Phytoplankton recorded in Hirakud Reservoir

(Source: Dash et al., 1993)

Bacillariophyceae

Amphiplauraceae

1 *Frustulia* sp.

Bacillariaceae

2 *Nitzschia* sp.

Catenulaceae

3 *Amphora* sp.

Cymbellaceae

4 *Cymbella* sp.

Naviculaceae

5 *Navicula* sp.

6 *Gyrosigma* sp.

Fragilariaceae

7 *Fragilaria* sp.

Hydrodictyaceae

8 *Pediastrum* sp.

Melosiraceae

9 *Melosira* sp.

10 *Melosira ambigua*

Stephanodiscaceae

11 *Cyclotella* sp.

Surirellaceae

12 *Surirella* sp.

Tabellariaceae

13 *Diatoma elongata*

Ulnariaceae

14 *Synendra ulna*

Chlorophyceae

Chlamydomonadaceae

15 *Chlamydomonas globosa*

Chlorellaceae

16 *Chlorella vulgaris*

17 *Actinastrum* sp.

Coccomyxaceae

18 *Dispora cuneiformis*

Scenedesmaceae

19 *Scenedesmus* sp.

Selenastraceae

20 *Ankistrodesmus falcatus*

21 *Kirchneriella* sp.

Trebouxiophyceae

22 *Crucigenia* sp.

Volvocaceae

23 *Pandorina* sp.

24 *Eudorina* sp.

Zygnemataceae

25 *Spirogyra* sp.

Cyanophyceae

Chroococcaceae

26 *Microcystis* sp.

27 *Merismopedia glauca* (Ehr.) Naegeli

28 *Synechococcus* sp.

Nostocaceae

29 *Anaebaena orientalis*

30 *Anaebaena* sp.

31 *Nostoc* sp.

Oscillatoriaceae

32 *Oscillatoria amoena* Gomont

33 *Oscillatoria orientalis*

34 *Oscillatoria simplicissima*

35 *Phormidium* sp.

36 *Arthrospira* sp.

37 *Spirulina* sp.

Euglenophyceae

Euglenaceae

38 *Euglena* sp.

Phacaceae

39 *Phacus* sp.

Periphyton recorded in Mahanadi River

(Source: Pathak et al., 2007)

Amphiplauraceae

- 1 *Frustulia* sp.

Catenulaceae

- 2 *Amphora* sp.

Chaetophoraceae

- 3 *Uronema* sp.
4 *Draparnaldiopsis* sp.
5 *Chaetophora* sp.

Chlamydomonadaceae

- 6 *Protococcus* sp.

Cladophoraceae

- 7 *Cladophora* sp.

Cocconeidaceae

- 8 *Cocconeis* sp.

Cymbellaceae

- 9 *Cymbella* sp.

Desmidiaceae

- 10 *Cosmarium* sp.
11 *Staurastrum* sp.
12 *Desmidium* sp.

Diploneidaceae

- 13 *Diploneis* sp.

Gloeotilaceae

- 14 *Binuclearia* sp.

Mastogloiaaceae

- 15 *Mastogloia* sp.

Melosiraceae

- 16 *Melosira* sp.

Mesotaeniaceae

- 17 *Spirotaenia* sp.

Microsporaceae

- 18 *Microspora* sp.

Nostocaceae

- 19 *Anabaena* sp.

Oedogoniaceae

- 20 *Oedogonium* sp.

Oscillatoriaceae

- 21 *Oscillatoria* sp.

Pinnulariaceae

- 22 *Pinnularia* sp.

Pithophoraceae

- 23 *Basicladia* sp.

Prasiolaceae

- 24 *Hormidium* sp.

Rhopalodiaceae

- 25 *Rhopalodia* sp.

Selenastraceae

- 26 *Kirchneriella* sp.

Stauroneidaceae

- 27 *Stauroneis* sp.

Surirellaceae

- 28 *Surirella* sp.

Tabellariaceae

- 29 *Diatoma* sp.
30 *Asterionella* sp.
31 *Meridion* sp.
32 *Tabellaria* sp.

Treubariaceae

- 33 *Treubaria* sp.

Tribonemataceae

- 34 *Tribonema* sp.

Ulotrichaceae

- 35 *Ulothrix* sp.

Zygnemataceae

- 36 *Zygnema* sp.

Macrophytes recorded in Mahanadi River

(Source: Pathak et al., 2007)

Acanthaceae

- 1
- Asteracantha longifolia*
- (L.) Nees

Alismataceae

- 2
- Sagittaria sagittifolia*
- L.

Amaranthaceae

- 3
- Alternanthera sessilis*
- (L.) R.Br. ex DC.

Amaryllidaceae

- 4
- Crinum defixum*
- Ker Gawl.

Araceae

- 5
- Pistia stratiotes*
- L.

- 6
- Colocasia esculenta*
- (L.) Schott

Cannaceae

- 7
- Canna glauca*
- L.

Compositae

- 8
- Enydra fluctuans*
- Lour.

Convolvulaceae

- 9
- Ipomoea aquatica*
- Forssk.

- 10
- Ipomoea indica*
- (J. Burman) Merr.

Gramineae

- 11
- Brachiaria cruciformis*
- Griseb.

- 12
- Coix lacryma-jobi*
- L.

- 13
- Cynodon dactylon*
- (L.) Pers.

- 14
- Oryza sativa*
- L.

- 15
- Saccharum spontaneum*
- L.

Hydrocharitaceae

- 16
- Najas indica*
- (Willd.) Cham.

- 17
- Ottelia alismoides*
- (L.) Pers.

- 18
- Vallisneria spiralis*
- L.

Lemnaceae

- 19
- Lemna perpusilla*
- Torr.

- 20
- Wolffia arrhiza*
- (L.) Horkel ex Wimm.

- 21
- Spirodela polyrhiza*
- (L.) Schleid.

Lythraceae

- 22
- Trapa bispinosa*
- Roxb.

Marsileaceae

- 23
- Marsilea quadrifolia*
- L.

Nelumbonaceae

- 24
- Nelumbo nucifera*
- Gaertn.

- 25
- Nelumbo pentapetala*
- (Walter) Willd.

Nymphaeaceae

- 26
- Euryale ferox*
- Salisb.

- 27
- Nymphaea stellata*

Onagraceae

- 28
- Jussiaea repens*
- L.

Pontederiaceae

- 29
- Eichhornia crassipes*
- (Mart.) Solms

Salviniaceae

- 30
- Azolla pinnata*
- R.Br.

- 31
- Salvinia molesta*
- Mitch.

Scrophulariaceae

- 32
- Bacopa monnieri*
- (L.) Wettst.

Typhaceae

- 33
- Typha elephantina*
- Roxb.

Umbelliferae

- 34
- Centella asiatica*
- (L.) Urb.

Zooplankton recorded in Mahanadi River
(Source: Pathak et al., 2007)

Cladocera

Bosminidae

- 1 *Bosmina* sp.

Centropagidae

- 2 *Limnocalanus* sp.

Chydoridae

- 3 *Alona* sp.
4 *Alonella* sp.
5 *Chydorus* sp.
6 *Leydigia* sp.

Daphniidae

- 7 *Ceriodaphnia* sp.
8 *Daphnia* sp.

Moinidae

- 9 *Moina* sp.

Sididae

- 10 *Diaphanosoma* sp.
11 *Sida* sp.

Copepoda

Cyclopidae

- 12 *Cyclops* sp.

Diaptomidae

- 13 *Diaptomus* sp.

Ostracoda

Cyprididae

- 14 *Cypris* sp.

Protozoa

Centropyxidae

- 15 *Centropyxis* sp.

Colpodidae

- 16 *Colpoda* sp.

Diffugiidae

- 17 *Diffugia* sp.

Euglyphidae

- 18 *Euglypha* sp.
19 *Trinema* sp.

Oxytrichidae

- 20 *Oxytricha* sp.

Plagiopyxidae

- 21 *Bullinularia* sp.

Spirostomidae

- 22 *Blepharisma* sp.
23 *Spirostomum* sp.

Rotifera

Asplanchnidae

- 24 *Asplanchna* sp.

Brachionidae

- 25 *Brachionus* sp.
26 *Keratella* sp.
27 *Notholca* sp.

Conochilidae

- 28 *Conochilus* sp.

Euchlanidae

- 29 *Diplois* sp.

Gastropodidae

- 30 *Ascomorpha* sp.
31 *Chromogaster* sp.
32 *Gastropus* sp.

Lecanidae

- 33 *Lecane* sp.
34 *Monostyla* sp.

Lepadellidae

- 35 *Colurella* sp.

Mytilinidae

- 36 *Lophocharis* sp.
37 *Mytilina* sp.

Philodinidae

- 38 *Rotaria* sp.

Synchaetidae

- 39 *Polyarthra* sp.
40 *Synchaeta* sp.

Testudinellidae

- 41 *Pompholyx* sp.
42 *Testudinella* sp.

Trichocercidae

43 *Trichocerca* sp.

Trochosphaeridae

44 *Filinia* sp.

45 *Horaella* sp.

Molluscs recorded in Mahanadi River

(Source: Pathak et al., 2007)

Gastropoda**Amnicolidae**

- 1
- Amnicola*
- sp.

Ampullariidae

- 2
- Pila*
- sp.

Assimineidae

- 3
- Assiminea*
- sp.

Cochliopidae

- 4
- Littoridina*
- sp.

Cypraeidae

- 5
- Cypraea*
- sp.

Hydrobiidae

- 6
- Tryonia*
- sp.

Littorinidae

- 7
- Littorina*
- sp.

Lymnaeidae

- 8
- Lymnaea*
- sp.

Melongenidae

- 9
- Pugilina*
- sp.

Muricidae

- 10
- Murex*
- sp.

Nassariidae

- 11
- Nassarius*
- sp.

Neritidae

- 12
- Nerita*
- sp.

Planorbidae

- 13
- Gyraulus*
- sp.

- 14
- Indoplanorbis*
- sp.

Pleuroceridae

- 15
- Goniobasis*
- sp.

- 16
- Pleurocera*
- sp.

Potamididae

- 17
- Cerithidea*
- sp.

- 18
- Telescopium*
- sp.

Thiaridae

- 19
- Melanoides*
- sp.

- 20
- Tarebia*
- sp.

- 21
- Thiara*
- sp.

Viviparidae

- 22
- Bellamya*
- sp.

- 23
- Campeloma*
- sp.

- 24
- Viviparus*
- sp.

Bivalvia**Cyrenidae**

- 25
- Corbicula*
- sp.

Donacidae

- 26
- Donax*
- sp.

Pharidae

- 27
- Siliqua*
- sp.

Sphaeriidae

- 28
- Musculium*
- sp.

- 29
- Pisidium*
- sp.

- 30
- Sphaerium*
- sp.

Unionidae

- 31
- Anodonta*
- sp.

- 32
- Lamellidens*
- sp.

- 33
- Ligumia*
- sp.

- 34
- Parreysia*
- sp.

Veneridae

- 35
- Meretrix*
- sp.

Fish species recorded in Hirakud Reservoir
(Source: CIFT (ca 1995) and Sugunan 1995)

Ambassidae

- 1 *Chanda nama* Hamilton, 1822

Bagridae

- 2 *Sperata seenghala* (Sykes, 1839)
3 *Sperata aor* (Hamilton, 1822)
4 *Mystus gulio* (Hamilton, 1822)
5 *Rita chrysea* Day, 1877
6 *Mystus tengra* (Hamilton, 1822)
7 *Mystus cavasius* (Hamilton, 1822)

Belontiidae

- 8 *Xenentodon cancila* (Hamilton, 1822)

Channidae

- 9 *Channa striata* (Bloch, 1793)
10 *Channa marulius* (Hamilton, 1822)
11 *Channa punctata* (Bloch, 1793)
12 *Channa gachua* (Hamilton 1822)

Cichlidae

- 13 *Oreochromis niloticus* (Linnaeus, 1758)

Clariidae

- 14 *Clarias batrachus* (Linnaeus, 1758)

Clupeidae

- 15 *Gudusia chapra* (Hamilton, 1822)

Cyprinidae

- 16 *Catla catla* (Hamilton, 1822)
17 *Labeo fimbriatus* (Bloch, 1795)
18 *Labeo calbasu* (Hamilton, 1822)
19 *Labeo rohita* (Hamilton, 1822)
20 *Labeo gonius* (Hamilton, 1822)
21 *Labeo bata* (Hamilton, 1822)
22 *Cirrhinus mrigala* (Hamilton, 1822)
23 *Cirrhina reba* (Hamilton, 1822)
24 *Tor tor* (Hamilton, 1822)
25 *Systemus sarana* (Hamilton, 1822)
26 *Osteobrama cotio cunna* (Day, 1888)
27 *Salmophasia bacaila* (Hamilton, 1822)
28 *Puntius sophore* (Hamilton, 1822)
29 *Puntius ticto* (Hamilton, 1822)

- 30 *Puntius chola* (Hamilton, 1822)
31 *Puntius dorsalis* (Jerdon, 1849)
32 *Esomus danrica* (Hamilton, 1822)
33 *Rasbora daniconius* (Hamilton, 1822)
34 *Amblypharyngodon mola* (Hamilton, 1822)
35 *Tor mosal mahanadicus* (non David, 1953)

Gobiidae

- 36 *Glossogobius giuris* (Hamilton, 1822)

Heteropneustidae

- 37 *Heteropneustes fossilis* (Bloch, 1794)

Mastacembelidae

- 38 *Mastacembelus armatus* (Lacepède, 1800)
39 *Mastacembelus pancalus* (Hamilton, 1822)

Mugilidae

- 40 *Rhinomugil corsula* (Hamilton, 1822)

Nandidae

- 41 *Nandus nandus* (Hamilton, 1822)

Notopteridae

- 42 *Notopterus notopterus* (Pallas, 1769)
43 *Notopterus chitala* (Hamilton 1822)

Palaemonidae

- 44 *Macrobrachium malcolmsonii* Johnson, 1973

Pangasiidae

- 45 *Pangasius pangasius* (Hamilton, 1822)
46 *Pangasius sutchi* Fowler, 1937

Schilbeidae

- 47 *Silonia silondia* (Hamilton, 1822)
48 *Eutropiichthys vacha* (Hamilton, 1822)
49 *Ailia coila* (Hamilton, 1822)

Sciaenidae

- 50 *Otolithoides pama* (Hamilton, 1822)

Siluridae

- 51 *Wallago attu* (Bloch & Schneider, 1801)
52 *Ompok bimaculatus* (Bloch, 1794)
53 *Ompok pabda* (Hamilton, 1822)

Sisoridae

- 54 *Bagarius bagarius* (Hamilton, 1822)

Insects recorded in Mahanadi River
(Source: Pathak et al., 2007)

Diptera

Ceratopogonidae

1 *Probezzia* sp.

Chaoboridae

2 *Chaoborus* sp.

Chironomidae

3 *Chironomus* sp.

Simuliidae

4 *Simulium* sp.

Ephemeroptera

Baetidae

5 *Cloeon* sp.

Caenidae

6 *Caenis* sp.

Hemiptera

Corixidae

7 *Corixa hieroglyphica*

Gelastocoridae

8 *Gelastocoris bufo*

Gerridae

9 *Gerris spinolae*

Nepidae

10 *Nepa* sp.

11 *Ranatra filiformis*

12 *Laccotrephes maculatus*

Notonectidae

13 *Notonecta* sp.

14 *Anisops* sp.

Pleidae

15 *Plea* sp.

Belostomatidae

16 *Belostoma* sp.

17 *Lethocerus indicus*

Odonata

Gomphidae

18 *Aphylla* sp.

19 *Gomphus* sp.

20 *Hagenius* sp.

Lestidae

21 *Lestes* sp.

Sarcophagidae

22 *Agria* sp.

Aeshnidae

23 *Anax* sp.

Placoptera

Perlodidae

24 *Isogenus* sp.

Trichoptera

Hydropsychidae

25 *Hydropsyche* sp.

Amphibians recorded in Sambalpur District
(Source: Dash and Mahanta, 1993)

Bufonidae

- 1 *Duttaphrynus melanostictus* (Schneider, 1799)
- 2 *Duttaphrynus stomaticus* (Lütken, 1864)

Dicroglossidae

- 3 *Sphaerotheca breviceps* (Schneider, 1799)
- 4 *Fejervarya limnocharis* (Gravenhorst, 1829)
- 5 *Hoplobatrachus tigerinus* (Daudin, 1802)
- 6 *Euphlyctis ehrenbergii* (Peters, 1863)

Microhylidae

- 7 *Microhyla ornata* (Duméril & Bibron, 1841)
- 8 *Ramanella variegata* (Stoliczka, 1872)
- 9 *Uperodon systema* (Schneider, 1799)

Rhacophoridae

- 10 *Polypedates maculatus* (Gray, 1830)

Reptiles recorded from Mahanadi River Downstream

(Source: Rufford Foundation for Nature Conservation, 2005)

Crocodylidae

- 1 *Crocodylus palustris* Lesson, 1831
- 2 *Crocodylus porosus* Schneider, 1801

Gavialidae

- 3 *Gavialis gangeticus* (Gmelin in Linnaeus, 1789)

Geoemydidae

- 4 *Pangshura tentoria* (Gray, 1834)

Trionychidae

- 5 *Nilssonia gangetica* (Cuvier, 1825)
- 6 *Lissemys punctata* (Lacépède, 1788)
- 7 *Chitra indica* (Gray, 1830)

Bird species recorded at Hirakud Reservoir

(Source: AWC Records and Nair et al., 2014)

Sl. No.	Species	Common Name	Family	IUCN Status	Population Trend
1	<i>Milvus migrans</i> (Boddaert, 1783)	Black Kite	Accipitridae	LC	Unknown
2	<i>Haliastur indus</i> (Boddaert, 1783)	Brahminy Kite	Accipitridae	LC	Decreasing
3	<i>Circus melanoleucos</i> (Pennant, 1769)	Pied Harrier	Accipitridae	LC	Decreasing
4	<i>Circus aeruginosus</i> (Linnaeus, 1758)	Western Marsh-Harrier	Accipitridae	LC	Increasing
5	<i>Haliaeetus leucogaster</i> (Gmelin, 1788)	White-bellied Sea-eagle	Accipitridae	LC	Decreasing
6	<i>Clanga clanga</i> (Pallas, 1811)	Greater Spotted Eagle	Accipitridae	VU	Decreasing
7	<i>Clanga hastata</i> (Lesson, 1831)	Indian Spotted Eagle	Accipitridae	VU	Decreasing
8	<i>Haliaeetus leucoryphus</i> (Pallas, 1771)	Pallas's Fish-Eagle	Accipitridae	VU	Decreasing
9	<i>Circus macrourus</i> (Gmelin, 1770)	Pallid Harrier	Accipitridae	NT	Decreasing
10	<i>Alcedo atthis</i> (Linnaeus, 1758)	Common Kingfisher	Alcedinidae	LC	Unknown
11	<i>Ceryle rudis</i> (Linnaeus, 1758)	Pied Kingfisher	Alcedinidae	LC	Unknown
12	<i>Halcyon smyrnensis</i> (Linnaeus, 1758)	White-throated Kingfisher	Alcedinidae	LC	Increasing
13	<i>Pelargopsis capensis</i> (Linnaeus, 1766)	Stork-billed Kingfisher	Alcedinidae	LC	Decreasing
14	<i>Anser indicus</i> (Latham, 1790)	Bar-headed Goose	Anatidae	LC	Decreasing
15	<i>Sarkidiornis melanotos</i> (Pennant, 1769)	Comb Duck	Anatidae	LC	Decreasing
16	<i>Aythya ferina</i> (Linnaeus, 1758)	Common Pochard	Anatidae	LC	Decreasing
17	<i>Tadorna tadorna</i> (Linnaeus, 1758)	Common Shelduck	Anatidae	LC	Increasing
18	<i>Anas crecca</i> Linnaeus, 1758	Common Teal	Anatidae	LC	Unknown
19	<i>Nettapus coromandelianus</i> (Gmelin, 1789)	Cotton Pygmy-goose	Anatidae	LC	Stable
20	<i>Mareca penelope</i> (Linnaeus, 1758)	Eurasian Wigeon	Anatidae	LC	Decreasing
21	<i>Aythya nyroca</i> (Güldenstädt, 1770)	Ferruginous Duck	Anatidae	NT	Decreasing
22	<i>Dendrocygna bicolor</i> (Vieillot, 1816)	Fulvous Whistling-duck	Anatidae	LC	Decreasing
23	<i>Mareca strepera</i> (Linnaeus, 1758)	Gadwall	Anatidae	LC	Unknown
24	<i>Spatula querquedula</i> (Linnaeus, 1758)	Garganey	Anatidae	LC	Decreasing
25	<i>Anser anser</i> (Linnaeus, 1758)	Greylag Goose	Anatidae	LC	Increasing
26	<i>Dendrocygna javanica</i> (Horsfield, 1821)	Lesser Whistling-duck	Anatidae	LC	Decreasing
27	<i>Anas platyrhynchos</i> Linnaeus, 1758	Mallard	Anatidae	LC	Decreasing
28	<i>Marmaronetta angustirostris</i> (Ménétriés, 1832)	Marbled Teal	Anatidae	VU	Decreasing
29	<i>Anas acuta</i> Linnaeus, 1758	Northern Pintail	Anatidae	LC	Decreasing
30	<i>Spatula clypeata</i> (Linnaeus, 1758)	Northern Shoveler	Anatidae	LC	Decreasing
31	<i>Netta rufina</i> (Pallas, 1773)	Red-crested Pochard	Anatidae	LC	Unknown

Sl. No.	Species	Common Name	Family	IUCN Status	Population Trend
32	<i>Tadorna ferruginea</i> (Pallas, 1764)	Ruddy Shelduck	Anatidae	LC	Unknown
33	<i>Aythya fuligula</i> (Linnaeus, 1758)	Tufted Duck	Anatidae	LC	Stable
34	<i>Anas poecilorhyncha</i> Forster, 1781	Indian Spot-billed Duck	Anatidae	LC	Decreasing
35	<i>Asarcornis scutulata</i> (S. Müller, 1842)	White-winged Duck	Anatidae	EN	Decreasing
36	<i>Anhinga melanogaster</i> Pennant, 1769	Oriental Darter	Anhingidae	NT	Decreasing
37	<i>Ixobrychus flavicollis</i> (Latham, 1790)	Black Bittern	Ardeidae	LC	Decreasing
38	<i>Nycticorax nycticorax</i> (Linnaeus, 1758)	Black-crowned Night-Heron	Ardeidae	LC	Decreasing
39	<i>Bubulcus ibis</i> (Linnaeus, 1758)	Cattle Egret	Ardeidae	LC	Increasing
40	<i>Casmerodius albus</i> (Linnaeus, 1758)	Great Egret	Ardeidae	LC	Unknown
41	<i>Ardea cinerea</i> Linnaeus, 1758	Grey Heron	Ardeidae	LC	Unknown
42	<i>Ardeola grayii</i> (Sykes, 1832)	Indian Pond-heron	Ardeidae	LC	Unknown
43	<i>Ardea intermedia</i> Wagler, 1829	Intermediate Egret	Ardeidae	LC	Decreasing
44	<i>Egretta garzetta</i> (Linnaeus, 1766)	Little Egret	Ardeidae	LC	Increasing
45	<i>Ardea purpurea</i> Linnaeus, 1766	Purple Heron	Ardeidae	LC	Decreasing
46	<i>Ixobrychus cinnamomeus</i> (Gmelin, 1789)	Cinnamon Bittern	Ardeidae	LC	Stable
47	<i>Botaurus stellaris</i> (Linnaeus, 1758)	Great Bittern	Ardeidae	LC	Decreasing
48	<i>Ixobrychus sinensis</i> (Gmelin, 1789)	Yellow Bittern	Ardeidae	LC	Unknown
49	<i>Charadrius alexandrinus</i> Linnaeus, 1758	Kentish Plover	Charadriidae	LC	Decreasing
50	<i>Vanellus indicus</i> (Boddaert, 1783)	Red-wattled Lapwing	Charadriidae	LC	Unknown
51	<i>Vanellus malarbaricus</i> (Boddaert, 1783)	Yellow-wattled Lapwing	Charadriidae	LC	Stable
52	<i>Pluvialis squatarola</i> (Linnaeus, 1758)	Grey Plover	Charadriidae	LC	Decreasing
53	<i>Charadrius dubius</i> Scopoli, 1786	Little Ringed Plover	Charadriidae	LC	Stable
54	<i>Pluvialis fulva</i> (Gmelin, 1789)	Pacific Golden Plover	Charadriidae	LC	Decreasing
55	<i>Vanellus duvaucelii</i> (Lesson, 1826)	River Lapwing	Charadriidae	NT	Unknown
56	<i>Anastomus oscitans</i> (Boddaert, 1783)	Asian Openbill	Ciconiidae	LC	Unknown
57	<i>Ciconia ciconia</i> (Linnaeus, 1758)	White Stork	Ciconiidae	LC	Increasing
58	<i>Ciconia episcopus</i> (Boddaert, 1783)	Woolly-necked Stork	Ciconiidae	VU	Decreasing
59	<i>Leptoptilos javanicus</i> (Horsfield, 1821)	Lesser Adjutant	Ciconiidae	VU	Decreasing
60	<i>Mycteria leucocephala</i> (Pennant, 1769)	Painted Stork	Ciconiidae	NT	Decreasing
61	<i>Cisticola juncidis</i> (Rafinesque, 1810)	Zitting Cisticola	Cisticolidae	LC	Increasing
62	<i>Columba livia</i> Gmelin, 1789	Rock Pigeon	Columbidae	LC	Decreasing
63	<i>Corvus levaillantii</i> Lesson, 1831	Jungle Crow	Corvidae	LC	Stable
64	<i>Centropus sinensis</i> (Stephens, 1815)	Greater Coucal	Cuculidae	LC	Stable
65	<i>Falco ruficollis</i> Swainson, 1837	Red-necked Falcon	Falconidae	LC	Decreasing
66	<i>Falco peregrinus</i> Tunstall, 1771	Peregrine falcon	Falconidae	LC	Stable
67	<i>Glareola maldivarum</i> Forster, 1795	Oriental Pratincole	Glareolidae	LC	Decreasing

Sl. No.	Species	Common Name	Family	IUCN Status	Population Trend
68	<i>Glareola lactea</i> Temminck, 1820	Small Pratincole	Glareolidae	LC	Unknown
69	<i>Grus nigricollis</i> Przevalski, 1876	Black-necked Crane	Gruidae	VU	Decreasing
70	<i>Grus grus</i> (Linnaeus, 1758)	Common Crane	Gruidae	LC	Unknown
71	<i>Hirundo rustica</i> Linnaeus, 1758	Barn Swallow	Hirundinidae	LC	Decreasing
72	<i>Riparia chinensis</i> (J. E. Gray, 1830)	Grey-throated Sand Martin	Hirundinidae	NE	
73	<i>Hirundo daurica</i> Linnaeus, 1771	Red-rumped Swallow	Hirundinidae	LC	Stable
74	<i>Hirundo fluvicola</i> Blyth, 1855	Streak-throated Swallow	Hirundinidae	LC	Increasing
75	<i>Hirundo smithii</i> Leach, 1818	Wire-tailed Swallow	Hirundinidae	LC	Increasing
76	<i>Metopidius indicus</i> (Latham, 1790)	Bronze-winged Jacana	Jacanidae	LC	Unknown
77	<i>Hydrophasianus chirurgus</i> (Scopoli, 1786)	Pheasant-tailed Jacana	Jacanidae	LC	Decreasing
78	<i>Larus ridibundus</i> Linnaeus, 1766	Black-headed Gull	Laridae	LC	Decreasing
79	<i>Larus brunnicephalus</i> Jerdon, 1840	Brown-headed Gull	Laridae	LC	Stable
80	<i>Larus cachimans</i> Pallas, 1811	Caspian/Heuglin's Gull	Laridae	LC	Stable
81	<i>Larus marinus</i> Linnaeus, 1758	Greater Black-backed Gull	Laridae	LC	Increasing
82	<i>Gelochelidon nilotica</i> (Gmelin, 1789)	Gull-billed Tern	Laridae	LC	Decreasing
83	<i>Larus fuscus</i> Linnaeus, 1758	Lesser Black-backed Gull	Laridae	LC	Increasing
84	<i>Hydrocoloeus minutus</i> Pallas, 1776	Little Gull	Laridae	LC	Increasing
85	<i>Sternula albifrons</i> (Pallas, 1764)	Little Tern	Laridae	LC	Decreasing
86	<i>Larus ichthyaetus</i> Pallas, 1773	Pallas's Gull	Laridae	LC	Decreasing
87	<i>Sterna aurantia</i> Gray, 1831	River Tern	Laridae	NT	Decreasing
88	<i>Chlidonias hybrida</i> (Pallas, 1811)	Whiskered Tern	Laridae	LC	Stable
89	<i>Sterna acuticauda</i> Gray, 1832	Black-bellied Tern	Laridae	EN	Decreasing
90	<i>Rynchops albicollis</i> Swainson, 1838	Indian Skimmer	Laridae	VU	Decreasing
91	<i>Merops orientalis</i> Latham, 1802	Little Green Bee-eater	Meropidae	LC	Increasing
92	<i>Motacilla citreola</i> Pallas, 1776	Citrine Wagtail	Motacillidae	LC	Stable
93	<i>Motacilla cinerea</i> Tunstall, 1771	Grey Wagtail	Motacillidae	LC	Stable
94	<i>Anthus rufulus</i> Vieillot, 1818	Paddyfield Pipit	Motacillidae	LC	Stable
95	<i>Motacilla alba</i> Linnaeus, 1758	White Wagtail	Motacillidae	LC	Stable
96	<i>Motacilla madaraspatensis</i> Gmelin, 1789	White-browed Wagtail	Motacillidae	LC	Stable
97	<i>Motacilla flava</i> Linnaeus, 1758	Yellow Wagtail	Motacillidae	LC	Decreasing
98	<i>Pandion haliaetus</i> (Linnaeus, 1758)	Osprey	Pandionidae	LC	Increasing
99	<i>Pelecanus philippensis</i> Gmelin, 1789	Spot-billed Pelican	Pelecanidae	NT	Decreasing
100	<i>Phalacrocorax carbo</i> (Linnaeus, 1758)	Great Cormorant	Phalacrocoracidae	LC	Increasing
101	<i>Phalacrocorax fuscicollis</i> Stephens, 1826	Indian Cormorant	Phalacrocoracidae	LC	Unknown
102	<i>Microcarbo niger</i> (Vieillot, 1817)	Little Cormorant	Phalacrocoracidae	LC	Unknown
103	<i>Podiceps cristatus</i> (Linnaeus, 1758)	Great Crested Grebe	Podicipedidae	LC	Unknown

Sl. No.	Species	Common Name	Family	IUCN Status	Population Trend
104	<i>Tachybaptus ruficollis</i> (Pallas, 1764)	Little Grebe	Podicipedidae	LC	Decreasing
105	<i>Podiceps nigricollis</i> Brehm, 1831	Black-necked Grebe	Podicipedidae	LC	Unknown
106	<i>Fulica atra</i> Linnaeus, 1758	Common Coot	Rallidae	LC	Decreasing
107	<i>Gallinula chloropus</i> (Linnaeus, 1758)	Common Moorhen	Rallidae	LC	Stable
108	<i>Porphyrio porphyrio</i> (Linnaeus, 1758)	Purple Swampphen	Rallidae	LC	Unknown
109	<i>Amaurornis phoenicurus</i> (Pennant, 1769)	White-breasted Waterhen	Rallidae	LC	Unknown
110	<i>Zapornia pusilla</i> (Pallas, 1776)	Baillon's Crake	Rallidae	LC	Unknown
111	<i>Zapornia fusca</i> (Linnaeus, 1766)	Ruddy-breasted Crake	Rallidae	LC	Decreasing
112	<i>Gallicrex cinerea</i> (Gmelin, 1789)	Watercock	Rallidae	LC	Decreasing
113	<i>Himantopus himantopus</i> (Linnaeus, 1758)	Black-winged Stilt	Recurvirostridae	LC	Increasing
114	<i>Rostratula benghalensis</i> (Linnaeus, 1758)	Greater Painted-snipe	Rostratulidae	LC	Decreasing
115	<i>Tringa nebularia</i> (Gunnerus, 1767)	Common Greenshank	Scolopacidae	LC	Stable
116	<i>Actitis hypoleucos</i> Linnaeus, 1758	Common Sandpiper	Scolopacidae	LC	Decreasing
117	<i>Calidris minuta</i> (Leisler, 1812)	Little Stint	Scolopacidae	LC	Decreasing
118	<i>Tringa stagnatilis</i> (Bechstein, 1803)	Marsh Sandpiper	Scolopacidae	LC	Decreasing
119	<i>Tringa glareola</i> Linnaeus, 1758	Wood Sandpiper	Scolopacidae	LC	Stable
120	<i>Limosa limosa</i> (Linnaeus, 1758)	Black-tailed Godwit	Scolopacidae	NT	Decreasing
121	<i>Tringa totanus</i> (Linnaeus, 1758)	Common Redshank	Scolopacidae	LC	Unknown
122	<i>Gallinago gallinago</i> (Linnaeus, 1758)	Common Snipe	Scolopacidae	LC	Decreasing
123	<i>Calidris ferruginea</i> (Pontoppidan, 1763)	Curlew Sandpiper	Scolopacidae	LC	Increasing
124	<i>Numenius arquata</i> (Linnaeus, 1758)	Eurasian Curlew	Scolopacidae	NT	Decreasing
125	<i>Tringa ochropus</i> Linnaeus, 1758	Green Sandpiper	Scolopacidae	LC	Stable
126	<i>Calidris temminckii</i> (Leisler, 1812)	Temminck's Stint	Scolopacidae	LC	Unknown
127	<i>Ketupa zeylonensis</i> (Gmelin, 1788)	Brown Fish-Owl	Strigidae	LC	Decreasing
128	<i>Threskiornis melanocephalus</i> (Latham, 1790)	Black-headed Ibis	Threskiornithidae	NT	Decreasing
129	<i>Pseudibis papillosa</i> (Temminck, 1824)	Red-naped Ibis	Threskiornithidae	LC	Decreasing
130	<i>Plegadis falcinellus</i> (Linnaeus, 1766)	Glossy Ibis	Threskiornithidae	LC	Decreasing

Commercially important fish species in Hirakud Reservoir

Bagridae

- 1 *Mystus tengra* (Hamilton, 1822)
- 2 *Sperata aor* (Hamilton, 1822)

Belonidae

- 3 *Xenentodon cancila* (Hamilton, 1822)

Channidae

- 4 *Channa striata* (Bloch, 1793)
- 5 *Channa marulius* (Hamilton, 1822)
- 6 *Channa punctata* (Bloch, 1793)

Cichlidae

- 7 *Oreochromis niloticus* (Linnaeus, 1758)

Clariidae

- 8 *Clarias batrachus* (Linnaeus, 1758)

Cyprinidae

- 9 *Labeo rohita* (Hamilton, 1822)
- 10 *Catla catla* (Hamilton, 1822)
- 11 *Cirrhinus mrigala* (Hamilton, 1822)
- 12 *Labeo gonius* (Hamilton, 1822)
- 13 *Labeo bata* (Hamilton, 1822)
- 14 *Cyprinus carpio* Linnaeus, 1758
- 15 *Ctenopharyngodon idella* (Valenciennes, 1844)
- 16 *Salmophasia bacaila* (Hamilton, 1822)

Notopteridae

- 17 *Notopterus notopterus* (Pallas, 1769)
- 18 *Notopterus chitala* (Hamilton 1822)

Pangasiidae

- 19 *Pangasius pangasius* (Hamilton, 1822)
- 20 *Pangasius sutchi* Fowler, 1937

Siluridae

- 21 *Wallago attu* (Bloch & Schneider, 1801)