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A CHECKLIST OF FISHES OF TELANGANA STATE, INDIA

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A checklist of fishes of Telangana State, India

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Abstract: A checklist of freshwater fishes of Telangana State, India including accepted common name, vernacular name, IUCN status, and endemicity is presented. Freshwater fish diversity of Telangana State is represented by 143 species belonging to 14 orders and 34 families. Two species, Rita bakalu and Indoreonectes telanganaensis are endemic to Telangana State.

Keywords: Freshwater fish, ichthyofauna, Godavari River basin, Krishna River basin.

Telangana State (15.835–19.917 °N, 77.238–81.307 °E), located on the Deccan Plateau in the south central part of peninsular India, was part of the erstwhile united Andhra Pradesh (1956–2014). Before this the region contributed to the major land area of Hyderabad State (1948–1956) and the erstwhile Princely State of Hyderabad (1724–1948). It encompasses an area of 1,12,077 km², and is drained by two major rivers, namely the Godavari and the Krishna along with their major and minor tributaries. Some important minor rivers include Dhundhubhi, Dindi, Haridra, Indravati, Kadam, Kagna, Kinnaresani, Manair, Manjeera, Munneru, Musi, Paleru, Peddavagu, Taliperu, Tungabhadra, Wainganga, and Wyra. Numerous natural and man-made water bodies also dot the landscape among which the major ones include Alisagar Reservoir, Annaram Barrage, Chelmelavagu Project, Devadula, Dindi, Dummugudem, Gollavagu, Gundrevula, Himayath Sagar, Ichchampally, Jonalaboguda, Jurala, Kadam, Kanthapally, Kinnaresani, Koilsagar, Lakkavaram, Lendi, Lower Jurala Lower Manair, Manjeera, Medigadda, Mid Manair, Musi Reservoir, Mylaram Reservoir, Nagarjun Sagar Reservoir, Nawabpet, Neelwai, Nizam Sagar, Osman Sagar, Pakhala, Palair, Palakurthy, Pedavagu, Pocharam, Pranahita Chevella, Rajolibanda, Ralevagu, Ramanpad, Rangaiah-Yerraiah, Sadarmat, Salivagu, Sathnala, Shanigaram, Shankara Samudram Balancing Reservoir, Singotam, Singur, Sriram Sagar, Tapaspalli Reservoir, Thotapally Reservoir, Udaya Samudram, Upper Manair...
Studies on the freshwater fish diversity of Telengana State dates back to late 19th century (Day 1876). This was followed by the work of Das (1924, 1944) who presented and published accounts of fishes in Hyderabad in the proceedings of the Indian Science Congress, and later by Rahimullah & Das (1935, 1936) in 12th volume of Bulletin de la Société Portugaise des Sciences Naturelles. Comprehensive research on fishes of the erstwhile Hyderabad State was initiated by Rahimullah (1943a,b, 1944) and Mahmood & Rahimullah (1947). Other significant literature on the fishes of Godavari and Krishna river basins in the erstwhile Hyderabad State, Madras Presidency, and united Andhra Pradesh include those by David (1963a,b), Jhingran (1983), Rao & Reddy (1984), Talwar & Jhingran (1991a,b), Menon (1999, 2004), and Jayaram (1981, 1995, 1999, 2010).

Freshwater fish diversity of united Andhra Pradesh was studied and documented by Barman (1993) who reported the occurrence of 158 species belonging to 68 genera in 27 families and 10 orders. Later, Barman (2003) reported 39 species belonging to 26 genera, 12 families, and five orders occurring in the Koi Sagar, Mahabubnagar District. Chandrasekhar (2004) reported 65 species belonging to 36 genera spread over 13 families and five orders from tanks, lakes, and reservoirs in Hyderabad and environs. Recently, Rao et al. (2010, 2011) reported 24 species of fish belonging to 12 families and six orders from Pocharam Lake, and 22 species under 11 families and six orders from Wyra Lake, respectively.

Over the last few years, several new species of fish were described from this region. This includes a new species of bagrid catfish *Rita bakalu* from Pranathita River (Lal et al. 2017) and a new species of hillstream loach *Indoreonectes telanganaensis* (Prasad et al. 2020b). Prasad & Srinivasulu (2019a,b) provided new records of fishes from Telangana State, while Shyamsundar et al. (2017) and Prasad et al. (2020a) reported the checklist of freshwater fish fauna in the Udayasamudram and Manjeera reservoirs, respectively.

In recent years, numerous research papers in conference proceedings, theses, and predatory journals have been published on fish diversity of various lakes, reservoirs and rivers of Telangana State. Attempts have also been made to provide a comprehensive list of fishes known to occur in water bodies in Telangana State, including two such compilations by Srivastava et al. (2017), and Khartade et al. (2019).

**METHODS**

For the present checklist, we researched and critically analysed all published (both peer-reviewed and non-peer-reviewed) literature and also relied on field surveys conducted since 2010 in various parts of Telangana State. We have also provided explanation for deletion of the taxa earlier recorded in literature, and appeal to future workers to collect voucher specimens to report additions to the fish diversity of Telangana State.

**RESULTS AND DISCUSSION**

In this checklist, 143 species of freshwater fishes in 14 orders and 34 families are listed (Table 1; Images 1–86), of which two species (*Rita bakalu* Lal et al., 2017 and *Indoreonectes telanganaensis* Prasad et al., 2020) are endemic to Telangana State, while 39 are endemic to India (30 to peninsular India), 11 species endemic to southern Asia (eight species from India and Sri Lanka, three species from peninsular India, three species from Bangladesh and India), and one species from India and Myanmar. As per the IUCN Red List of Threatened Species, the fish diversity of Telangana State includes 12 threatened species (including seven endangered species, namely, *Bangana nukta*, *Clarias magur*, *Hypselobarbus curmua*, *Hypselobarbus mussullah*, *Labeo potail*, *Thynnichthys sandkhol* and *Silonias childreni*), and five vulnerable species, namely, *Cirrhinus cirrhosus*, *Gagata itchkeea*, *Hypselobarbus kolus*, *Salmostoma horai* and *Wallago attu*.

As many as 13 species (*Clarias gariepinus*, *Ctenopharyngodon idella*, *Cyprinus carpio*, *Gambusia affinis*, *Hypophthalmichthys molitrix*, *Labeo rohita*, *Oreochromis mossambicus*, *O. niloticus*, *Osphromenus goramy*, *Pangasianodon hypophthalmus*, *Piaractus brachypomus*, *Poecilia reticulata*, and *Pterygoplichthys pardalis*) are introduced or exotic species, some of which have negative impacts on native fish fauna.

While compiling this list 43 species which were included in earlier publications and checklist have been removed due to taxonomic reasons and / or distribution mismatch (Table 2).

**REFERENCES**

Abraham, R. (2011a). *Amblypomys meletinus*. The IUCN Red List of Threatened Species 2011: e.T172316A6866139. Downloaded on 06 June 2020. [https://doi.org/10.2305/IUCN.UK.2011-1.RLTS.T172316A6866139.en](https://doi.org/10.2305/IUCN.UK.2011-1.RLTS.T172316A6866139.en)

Abraham, R. (2011b). *Longichistiura striatus*. The IUCN Red List of Threatened Species 2011: e.T172494A6903647. Downloaded on 12 June 2020. [https://doi.org/10.2305/IUCN.UK.2011-1.RLTS.T172494A6903647.en](https://doi.org/10.2305/IUCN.UK.2011-1.RLTS.T172494A6903647.en)

Abraham, R. (2011c). *Mystus malabaricus*. The IUCN Red List of Threatened Species 2011: e.T172343A6872439. Downloaded on 12 June 2020. [https://doi.org/10.2305/IUCN.UK.2011-1.RLTS.T172343A6872439.en](https://doi.org/10.2305/IUCN.UK.2011-1.RLTS.T172343A6872439.en)
Table 1. Checklist of fishes of Telangana State, India

| English name           | Species                      | Authority                        | Vernacular name | IUCN RL | Endemicity |
|------------------------|------------------------------|----------------------------------|-----------------|---------|------------|
| I. ORDER ANGUILLIFORMES|                              |                                  |                 |         |            |
| 1. Family Ophichthidae | Rice-paddy Eel¹              | Pisodonophis boro (Hamilton, 1822) | (Gray, 1831)    |         | LC         |
| 2. Family Anguillidae  | Indian Mottled Eel           | Anguilla bengalensis             | Dungoo Maigoo   |         | NT         |
| II. ORDER OSTEOGLOSSIFORMES|                              |                                  |                 |         |            |
| 3. Family Notopteridae | Bronze Featherback           | Notopterus synurus (Bloch & Schneider, 1801) | Mangalikatti |         | LC         |
| 4. Knifefish²         | Chitala chitala (Hamilton, 1822) |                        | Mangalikatti |         | NT         |
| III. ORDER CLupeiformes|                              |                                  |                 |         |            |
| 5. Family Clupeidae    | Ganges River Sprat¹           | Corica soborna                   |                  |         | LC         |
| 6. Ilisha              | Tenuulosa ilisha (Hamilton, 1822) |                        | Pulasa          |         | LC         |
| IV. ORDER CYPRINIFORMES|                              |                                  |                 |         |            |
| 5. Family Cobitidae    | Gunta Loach                   | Lepidocephalichthys guntea (Hamilton, 1822) | Ulchal         |         | LC         |
| 8. Common Spiny Loach  | Lepidocephalichthys thermalis | [Valenciennes, 1846]             | Asira           |         | PI & SL    |
| 6. Family Nemacheilida | Telangana Loach⁴              | Indoreonectes telangananensis Prasad et al., 2020 | Sanna ulshalu | NE      | TS         |
| 10. Mottled Loach      | Paracanthocobitis cf. botia   | [Hamilton, 1822]                 | Buddulche       |         | LC         |
| 11. Murangi            | Paracanthocobitis mooreh      | [Sykes, 1839]                    | Jerri chepa     | LC      | PI         |
| 12. Denison’s Loach    | Schistura denisoni            | [Day, 1867]                      | Ulsha           | LC      | IN         |
| 7. Family Cyprinidae   | Nukta³                        | Bangana nukta (Sykes, 1839)      | Mukkidichepa    | EN      | PI         |
| 14. Camatic Carp⁶      | Barbodes camaticus           | [Jerdon, 1849]                   |                 |         | LC         |
| 15. Mrigal Carp        | Cirrhinus cirrhosus          | (Bloch, 1795)                    | Aruzu           | VU      |           |
| 16. Mrigal Carp        | Cirrhinus mirigala           | [Hamilton, 1822]                 | Yerra Mosu      | LC      |           |
| 17. Reba Carp          | Cirrhinus reba               | [Hamilton, 1822]                 | Eele Mosu       | LC      |           |
| 18. Common Carp        | Cyprinus carpio⁴             | Linnaeus, 1758                   | Bangaru Teega   |         |           |
| 19. Blackspot Barb     | Dawkinsia filamentosa        | [Valenciennes, 1844]             | Chevalle-sevvalli | LC | PI |
| 20. Sucker Head        | Garra gatlya                 | [Gray 1830]                      | Banda Pakri     | LC      |           |
| 21. Sucker Fish        | Garra mulya                   | [Sykes, 1839]                    | Banda Pakri     | LC      | PI         |
| 22. Nilgris Garra      | Garra stenorhynchus          | [Jerdon, 1849]                   | Kalgawa         | LC      | PI         |
| 23. Reba               | Gymnostomus arista           | [Hamilton, 1807]                 | Arju            | LC      |           |
| 24. Deccan White Carp  | Gymnostomus fulungee         | [Sykes, 1839]                    | Mosu            | LC      | PI         |
| 25. Currmuca Barb⁵     | Hypselobarbus curmuca        | [Hamilton, 1807]                 | Currmuca        | EN      | PI         |
| 26. Jerdon’s Carp      | Hypselobarbus jerdoni        | [Day, 1870]                      | Cha-meen        | LC      | PI         |
| 27. Kolus              | Hypselobarbus kolus          | [Sykes, 1839]                    | Nilusu          | VU      | PI         |
| 28. Humpback Mahseer   | Hypselobarbus mussullah      | [Sykes, 1839]                    | Goonimansoor    | EN      | PI         |
| 29. Bata               | Labeo bata                   | [Hamilton, 1822]                 | Kangu           | LC      |           |
| 30. Boga Labeo         | Labeo boga                   | [Hamilton, 1822]                 | Ariza           | LC      |           |
| English name               | Species                  | Authority          | Vernacular name | IUCN RL | Endemicity |
|---------------------------|--------------------------|--------------------|-----------------|---------|------------|
| 31 Boggut Labeo           | Labeo boggut             | (Sykes, 1839)      | Nusigadu        | LC      |            |
| 32 Orangefin Labeo        | Labeo calbasu            | (Hamilton, 1822)   | Kaki-bocha      | LC      |            |
| 33 Catla                  | Labeo catla              | (Hamilton, 1822)   | Bocha           | LC      |            |
| 34 Fringed-lipped Peninsular Carp | Labeo fimbriatus       | (Bloch, 1795)     | Chithra         | LC      |            |
| 35 Kuria Labeo            | Labeo ganisus            | (Hamilton, 1822)   | Mosso           | LC      |            |
| 36 Deccan Labeo           | Labeo kawrus             | (Sykes, 1839)      |                | LC PI   |            |
| 37 Pangusia Labeo         | Labeo pangusia           | (Hamilton, 1822)   | Done-chepa      | NT      |            |
| 38 Bombay Labeo           | Labeo parcellus          | (Heckel, 1844)     | Moxya           | LC PI   |            |
| 39 Deccan Labeo           | Labeo patall             | (Sykes, 1839)      | Baman-chapra    | EN      | PI         |
| 40 Roho Labeo             | Labeo rohita             | (Hamilton, 1822)   | Routa           | LC      |            |
| 41 Peninsular Osteobrama  | Osteobrama peninsularis  | Silas, 1952        | Dammisia        | NE PI   |            |
| 42 Nilgiri Osteobrama     | Osteobrama neilli        | (Day, 1873)        |                | LC PI   |            |
| 43 Godavari Osteobrama    | Osteobrama vigorsii      | (Sykes, 1839)      | Kaydam-chepa    | LC PI   |            |
| 44 Konti Barb             | Osteochilichtys thomassi | (Day, 1877)       | Pedda Parka     | LC      |            |
| 45 Rosy Barb              | Pethia conchanus         | (Hamilton, 1822)   | Perka-chepa     | LC      |            |
| 46 Golden Barb            | Pethia getius            | (Hamilton, 1822)   |                | LC BD & IN |            |
| 47 Ticto Barb             | Pethia ticto             | (Hamilton, 1822)   | Parigi          | LC      |            |
| 48 Scarlet-banded Barb    | Puntius amphibius        | (Valenciennes, 1842) | Perka-chepa    | DD IN   |            |
| 49 Redside Barb           | Puntius bimaculatus      | (Bleeker, 1863)    | Pakki           | LC      | IN & SL    |
| 50 Swamp Barb             | Puntius chola            | (Hamilton, 1822)   | Pakki           | LC      |            |
| 51 Long snouted Barb      | Puntius dorsalis         | (Jerdon, 1849)     | Perka           | LC IN & SL |            |
| 52 Wynaad Barb            | Puntius melanostigma     | (Day, 1878)       | Perka           | NE      | IN         |
| 53 Pool Barb              | Puntius saphore          | (Hamilton, 1822)   | Cheddi Parigi   | LC      |            |
| 54 Greenstripe Barb       | Puntius vittatus         | Day,1865           | Parigi chepa    | LC      | IN & SL    |
| 55 Vatani Rohtee          | Rohtee agilbii           | Sykes, 1839        | Aku chepa       | LC      | PI         |
| 56 Olive Barb             | Systomus sorana          | (Hamilton, 1822)   | Kanyu           | LC      |            |
| 57 Stone Roller           | Tarijalabeo latius       | (Hamilton, 1822)   |                | LC      |            |
| 58 Sandkhol Carp          | Thynnichthys sanathkol   | (Sykes, 1839)      | Thalisagadu     | EN      | PI         |
| 59 Deccan Mahseer         | Tor khudree              | (Sykes, 1839)      | Kudis           | LC      | IN & SL    |

B. Family Danionidae

| English name               | Species                  | Authority          | Vernacular name | IUCN RL | Endemicity |
|---------------------------|--------------------------|--------------------|-----------------|---------|------------|
| 60 Mola Carplet           | Amblypharyngodon mola    | (Hamilton, 1822)   | Alan Chepa      | LC      |            |
| 61 Barred Baril           | Barilius barila          | (Hamilton, 1822)   | Kodipe          | LC      |            |
| 62 Morari                 | Cabalo morar             | (Hamilton, 1822)   | Gitsu           | LC      |            |
| 63 Silver Hatchet Chela   | Chela cachius            | (Hamilton, 1822)   | Getchu          | LC      |            |
| 64 Zebra Danio            | Danio rerio              | (Hamilton, 1822)   | Chintaku-parega | LC      |            |
| 65 Giant Danio            | Devario aequipinnatus    | (McClelland, 1839) | Nooltu          | LC      |            |
| 66 Sind Danio             | Devario devario          | (Hamilton, 1822)   | Nooltu          | LC      |            |
| 67 Indian Flying Baril    | Esomus danrica           | (Hamilton, 1822)   | Meesagadu       | LC      |            |
| 68 Flying Baril           | Esomus therioica         | (Valenciennes, 1842) | Meesagadu     | LC PI & SL |            |
| 69 Indian Glass Baril     | Laubuka laubuca          | (Hamilton, 1822)   | Getchu          | LC      |            |
| 70 Barna Baril            | Opsanus barna            | (Hamilton, 1822)   | Kodipe          | LC      |            |
| 71 Hamilton’s Baril       | Opsanus bendelisis       | (Hamilton, 1807)   | Kodipe          | LC      |            |
| English name                  | Species                        | Authority                   | Vernacular name | IUCN RL | Endemicity |
|------------------------------|--------------------------------|-----------------------------|-----------------|---------|------------|
| 72 Slender Rasbora           | Rasbora daniconius             | (Hamilton, 1822)            | Narangi         | LC      |            |
| 73 Gangetic Scissortail Rasbora | Rasbora rasbora              | (Hamilton, 1822)            | Kodipe-chepa    | LC      |            |
| 74 Silver Razorbelly Minnow  | Salmostoma acinaces            | (Valenciennes, 1844)       |                 | LC      | PI         |
| 75 Large Razorbelly Minnow   | Salmostoma bocaiia             | (Hamilton, 1822)            | Chadamama       | LC      |            |
| 76 Bloch Razorbelly Minnow   | Salmostoma baloonkee           | (Sykes, 1839)               |                 | LC      | PI         |
| 77 Boopis Razorbelly Minnow  | Salmostoma boopis              | (Day, 1874)                 | Chela           | LC      | PI         |
| 78 Hora Razorbelly Minnow    | Salmostoma horai               | (Silas, 1951)               | Chela           | VU      | IN         |
| 79 Novacula Razorbelly Minnow| Salmostoma novacula            | (Valenciennes, 1838)       | Chadamama       | LC      | PI         |
| 80 Finescale Razorbelly Minnow| Salmostoma phula              | (Hamilton, 1822)            | Blanca          | LC      |            |
| 81 Mahanadi Razorbelly Minnow| Salmostoma untrahi             | (Day, 1869)                 | Chela           | LC      | IN         |
| 82 Grass Carp                | Ctenopharyngodon idella*       | (Valenciennes, 1844)       | Ela-mosa        |         |            |
| 83 Silver Carp               | Hypophthalmichthys molitrix*   | (Valenciennes, 1844)       | Vendi chepa     |         |            |
| 84 Big-head Carp             | Hypophthalmichthys nobilis*    | (Richardson, 1845)         |                 |         |            |
| 85 Red-bellied Pacu          | Piaractus brachypomus*         | (Cuvier, 1818)             | Pacu            |         |            |
| 86 Amazon Sailfin Catfish    | Pterygoplichthys pardalis*     | (Castelnau, 1855)          | Dayam-chepa     |         |            |
| 87 Goongwaree Vacha          | Eutropiichthys goongware       | (Sykes, 1839)              | Gaddamsiluva    | DD      | IN & MM    |
| 88 Indian Taakree            | Proeutropiichthys taakree      | (Sykes, 1839)              | Siriva-jella    | LC      | IN         |
| 89 Schilbid Catfish          | Silonia childreni              | (Sykes, 1839)              | Pedda-jella     | EN      | PI         |
| 90 Khavalchor Catfish\*      | Pachypterus khavalchor         | (Kulkarni, 1952)           |                 | DD      | PI         |
| 91 Krishna Mystus            | Hemibagrus maydelli            | (Rössel, 1964)             | Ponduga         | LC      | PI         |
| 92 Day’s Mystus              | Mystus bleekeri                | (Day, 1877)                | Narjella        | LC      |            |
| 93 Gangetic Mystus           | Mystus cavasius                | (Hamilton, 1822)           | Thelia-jella    | LC      |            |
| 94 Long Whiskers Catfish     | Mystus gulio                   | (Hamilton, 1822)           | Jella           | LC      |            |
| 95 Tengara Catfish           | Mystus tengara                 | (Hamilton, 1822)           | Jella           | LC      | BD & IN    |
| 96 Striped Dwarf Catfish     | Mystus vittatus                | (Bloch, 1794)              | Erra-jella      | LC      |            |
| 97 Gogra Rita                | Rita gogra                    | (Sykes, 1839)              | Banki-yeddu     | LC      | IN         |
| 98 Deccan Rita               | Rita kuturnee                 | (Sykes, 1839)              | Bondu           | LC      | PI         |
| 99 Bakalu Rita\*             | Rita bakalu                   | Lal et al., 2017           | Bakalu          | NE      | TS         |
| 100 Long Whiskered Cat-fish  | Sperata aor                    | (Hamilton, 1822)           | Mukkan-jella    | LC      |            |
| 101 Giant River-catfish       | Sperata seenghala              | (Sykes, 1839)              | Nara-jella      | LC      |            |
| English name | Species | Authority | Vernacular name | IUCN RL | Endemicity |
|-------------|---------|-----------|----------------|---------|------------|
| 15. Family Sisoridae | | | | | |
| 102 Goonch | Bagarius bagarius | (Hamilton, 1822) | Raati jella | NT | |
| 103 Deccan Nangra | Gogota itchkeea | (Sykes, 1839) | Meenamma Bakkalu | VU | PI |
| 104 Mountain Catfish | Gyrinothenius lonah | (Sykes, 1839) | | LC | IN |
| 16. Family Pangasidae | | | | | |
| 105 Pangas Catfish | Pangasius pangasius | (Hamilton, 1822) | Banka-jella | LC | |
| 106 Sutchi Catfish | Pangasianodon hypophthalmus* | (Sauvage, 1878) | Choluva-jella | | |
| 107 Silas’ Catfish** | Pangasius silasi | Dwivedi et al. 2017 | Banka-jella | NE | PI |
| 17. Family Siluridae | | | | | |
| 108 Butter Catfish | Ompok bimaculatus | (Bloch, 1794) | Theenuva | NT | |
| 109 Pabda Catfish | Ompok pabda | (Hamilton, 1822) | Gogli | NT | BD & IN |
| 110 Pabo Catfish | Ompok pabo | (Hamilton, 1822) | Theduva | NT | |
| 111 Wallago | Wallago attu | (Bloch & Schneider, 1801) | Valuga | VU | |
| 18. Family Claridae | | | | | |
| 112 Magur | Clarias magur | (Hamilton, 1822) | Marpoo | EN | |
| 113 African Catfish | Clarias gariepinus* | | | | |
| 19. Family Heteropneustidae | | | | | |
| 114 Stinging Catfish | Heteropneustes fossilis | (Bloch, 1794) | Mapu-jella | LC | |
| VII. ORDER GOBIIFORMES | | | | | |
| 20. Family Gobiidae | | | | | |
| 115 Tank goby | Glossogobius giuris | (Hamilton, 1822) | Bullee-kokah | LC | |
| VIII. ORDER SYNBRANCHIFORMES | | | | | |
| 21. Family Mastacembelidae | | | | | |
| 116 Lesser Spiny Eel** | Macrognathus aral | (Bloch & Schneider, 1801) | Bommidai | LC | |
| 117 Barred Spiny Eel | Macrognathus pancalus | Hamilton, 1822 | Parparaal | LC | |
| 118 Zig-zag Eel | Mastacembelus armatus | (Lacepède, 1800) | Kontemukku | LC | |
| IX. ORDER ANABANTIFORMES | | | | | |
| 22. Family Anabantidae | | | | | |
| 119 Climbing Perch | Anabas testudineus | (Bloch, 1792) | Goraka Chepa | LC | |
| 23. Family Osphronemidae | | | | | |
| 120 Giant Gourami | Osphronemus goramy* | Lacepède, 1801 | Gourami | | |
| 121 Dwarf Gourami** | Trichogaster lalius | (Hamilton, 1822) | Chinna Gourami | LC | |
| 122 Banded Gourami | Trichogaster fasciatus | Bloch & Schneider, 1801 | Raika-punjee | LC | |
| 24. Family Channidae | | | | | |
| 123 Dwarf Snakehead | Channa gachua | (Hamilton, 1822) | Erra Matta | LC | |
| 124 Great Snakehead | Channa marulius | (Hamilton, 1822) | Poola Matta | LC | |
| 125 Spotted Snakehead | Channa punctata | (Bloch, 1793) | Matta | LC | |
| 126 Striped Snakehead | Channa striata | (Bloch, 1793) | Koramata | LC | |
| 25. Family Nandidae | | | | | |
| 127 Gangetic Leaffish | Nandus nandus | (Hamilton, 1822) | Pindiperka | LC | |
| 26. Family Badidae | | | | | |
| 128 Badis* | Badis badis | (Hamilton, 1822) | Kundala | LC | |
### English name | Species | Authority | Vernacular name | IUCN RL | Endemicity
--- | --- | --- | --- | --- | ---
**X. ORDER CICHLIFORMES**
27. Family Cichlidae

| | | | | | |
| --- | --- | --- | --- | --- | --- |
| 129 | Pearlspot | Etroplus suratensis | (Bloch, 1790) | Duveena-chepa | LC | IN & SL |
| 130 | Mozambique Tilapia | Oreochromis mossambicus* | (Peters, 1852) | Jilebi | LC | IN & SL |
| 131 | Nile Tilapia | Oreochromis niloticus* | (Linnaeus, 1758) | Tilapia | LC | IN & SL |
| 132 | Orange Chromide | Pseudetroplus maculatus | (Bloch, 1795) | Burakasu | LC | IN & SL |

**XI. ORDER CYPRINODONTIFORMES**
28. Family Aplocheilidae

| | | | | | |
| --- | --- | --- | --- | --- | --- |
| 133 | Striped Panchax | Aplocheilus lineatus | (Valenciennes, 1846) | Minnow Chepa | LC | IN |
| 134 | Blue Panchax | Aplocheilus panchax | (Hamilton, 1822) | Minnow Chepa | LC | IN |

29. Family Poeciliidae

| | | | | | |
| --- | --- | --- | --- | --- | --- |
| 135 | Mosquito Fish | Gambusia affinis* | (Baird & Girard, 1853) | Gambusia | LC | IN |
| 136 | Guppy | Poecilia reticulata* | Peters, 1859 | Guppy Cheppa | LC | IN |

**XII. ORDER BELONIFORMES**
30. Family Belonidae

| | | | | | |
| --- | --- | --- | --- | --- | --- |
| 137 | Freshwater Garfish | Xenentodon cancila | (Hamilton, 1822) | Vaddia-mukku | LC | IN |

31. Family Hemiramphidae

| | | | | | |
| --- | --- | --- | --- | --- | --- |
| 138 | Congaturi Halfbeak | Hyporhamphus limbatus | (Valenciennes, 1847) | Konga-mukku | LC | IN |

**XII. ORDER BELONIFORMES**
32. Family Adrianichthyidae

| | | | | | |
| --- | --- | --- | --- | --- | --- |
| 139 | Rice Fish | Oryzias dancena | (Hamilton, 1822) | Chukku-chepa | LC | IN |

**XIII. ORDER MUGILIFORMES**
33. Family Mugilidae

| | | | | | |
| --- | --- | --- | --- | --- | --- |
| 140 | Corsula | Rhinomugil corsula | (Hamilton, 1822) | Pai-kalla Chepa | LC | IN |

**XIV. ORDER PERCIFORMES**
34. Family Ambassidae

| | | | | | |
| --- | --- | --- | --- | --- | --- |
| 141 | Elongate Glass- perchlet | Chanda nama | Hamilton, 1822 | Sarawara | LC | IN |
| 142 | Highfin Glassy- perchlet | Parombassis lalao | (Hamilton, 1822) | NT | IN |
| 143 | Indian Glassy Fish | Parombassis ranga | (Hamilton, 1822) | Sarawara | LC | IN |

DD—Data Deficient | EN—Endangered | LC—Least Concern | NE—Not Evaluated | NT—Near Threatened | VU—Vulnerable | BD—Bangladesh | IN—India | MM—Myanmar | PI—Peninsular India | SL—Sri Lanka | TS—Telangana State | *—Introduced / exotic species
1Known from Udayasamudram Reservoir, Nalgonda District (R. Shyamsundar pers. comm.)
2Known from Talai near Bejjur, Komaram Bheem Asifabad District (present study)
3Known from Komaram Bheem Asifabad District (Prasad et al. 2020c)
4Known from the type locality- Maisamma Loddi, In Kawal Tiger Reserve, Mancheriyal District (Prasad et al. 2020b)
5Known from Srisailam Reservoir, Nagarkurnool District (Jayaram 1995)
6Known from the type locality- Maisamma Loddi, In Kawal Tiger Reserve, Mancheriyal District (Barman 1993)
7Known from Krishna River between Rekulampally to Nagarjunasagar Dam (Jayaram 1995)
8Known from Jamkhandi to Lingalagattu and up to Nagarjunasagar Reservoir (Jayaram 1995)
9Known from Nizam Sagar Reservoir, Kamareddy District (Barman 1993)
10Known from Godavari River Flowing through Bhadradri Kothagudem District (Barman 1993)
11Known from Krishna River between Rekulaampally to Nagarjunasagar Dam (Jayaram 1995)
12Known from Jamkhandi to Lingalagattu and up to Nagarjunasagar Reservoir (Jayaram 1995)
13Known from Krishna River (no exact location known, vide David 1963a), and Bejjur, Komaram Bheem Asifabad District (present study)
14Known from Krishna River between Rekulaampally to Srisaim Dam (Jayaram 1995), and Hyderabad environs (Chandrasekhar 2004)
15Known from Janampeta and Koll Sagar Reservoir in Mahbubnagar District (Barman 1993, 2003)
16Known from Krishna River between Jamkhandi to Lingalagattu (Jayaram 1995)
17Known from type locality - Talai near Bejjur, Komaram Bheem Asifabad District (Lal et al. 2017; present study)
18Known from Nagarjunasagar Reservoir, Krishna River in Nalgonda District (Dwivedi et al. 2017)
19Known from Phulang River, Nizamabad District (Barman 1993)
20Known from Pocharam Lake, Medak district and Molachintalpally, Nagarkurnool District (present study)
21Known only from Manjeera Reservoir (Prasad & Srinivasulu 2019b, Prasad et al. 2020a), and Wardha River, Komaram Bheem Asifabad District (present study)
### Table 2. Doubtful species removed from the final list of fishes known from Telangana State, India.

| Family          | Order          | Species                               | Reason                                                                                           | Reference               |
|-----------------|----------------|----------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------|
| Anguilliformes  | Anguillidae    | Anguilla bicolor McClelland, 1844       | On the eastern side of Indian peninsula, this species is known only from the coastal areas         | Pike et al. (2019)      |
| Beloniformes    | Adrianichthyida| Oryzias melastigma (McClelland, 1839)  | This species is known only from Wyanad in Kerala and along east coast of India from Tamil Nadu to West Bengal | Abraham (2011d)         |
| Hemiraphidiae   |                | Hyporhamphus xanthopterus (Valenciennes, 1847) | This species is endemic to the lakes of southern Kerala, Western Ghats                             | Shaji (2011)            |
| Cobitidae       |                | Leptocephalichthys berdmorei (Blyth, 1860) | This species is known only from Irrawaddy drainage in Manipur                                       | Daniels & Dahanukar (2020) |
| Anguilliformes  |                | Bengana diplomostomus (Heckel, 1838)   | This species is known from Indus & Gangetic drainages in northern India and Pakistan               | Vishwanath (2010a)      |
| Cypriniformes   | Cyprinidae     | Garra lanja (Hamilton, 1822)           | Reports of this species from southern India needs verification                                      | Singh (2010)            |
|                 |                | Garra mcclellandii (Jerdon, 1849)      | This species is endemic to Western Ghats, known from Tamil Nadu, Kerala, and Karnataka            | Dahanukar (2011b)       |
|                 |                | Haludaria melanomys (Day, 1865)        | This species is endemic to Western Ghats, known from Kerala and Karnataka                          | Abraham (2015)          |
|                 |                | Hyphesobarbus dobsoni (Day, 1876)      | Taxonomic uncertainty. This species is endemic to Western Ghats, known from Tamil Nadu, Kerala, Maharshtra, and Karnataka | Devi et al. (2005), Raghavan & Ali (2011b) |
|                 |                | Labeo dussumieri (Valenciennes, 1842)  | This species is endemic to Western Ghats, known from southern Kerala                              | Raghavan & Ali (2011c)  |
|                 |                | Labeo dyachelius (McClelland, 1839)    | This species is restricted to the Gangetic Plains and along the Himalayas in Assam, Uttar Pradesh, Uttarakhard, West Bengal, and Bihar | Dahanukar (2010b)       |
|                 |                | Labeo kontius (Jerdon, 1849)           | This species is restricted to the Cauveri river and its tributaries                               | Manimekalai (2011)      |
|                 |                | Labeo microphthalmus Day, 1877         | This species is restricted to Punjab, Uttar Pradesh, and Uttarakhand                             | Dahanukar (2010c)       |
|                 |                | Labeo nigrescens Day, 1870             | This species is restricted to Kerala and Karnataka                                             | John & John (2004)      |
|                 |                | Osteobrama belangeri (Valenciennes, 1844) | Presently O. belangeri is known only from Myanmar                                             | Vishwanath (2010b)      |
|                 |                | Osteobrama catio (Hamilton, 1822)      | All earlier records (Rahimullah 1943a,b, 1944; Mahmood & Rahimullah 1947; Barman 1993; Jayaram 1995; Prasad et al. 2020) assigned to this taxon are considered as Osteobrama peninsularis due to recent taxonomic changes recognizing specific status of taxa cunma and peninsularis, earlier considered subspecies of Osteobrama catio | Rahman et al. (2018) |
|                 |                | Osteobrama cunna (Day, 1888)           | See above remarks. All earlier records (Rahimullah 1943a,b, 1944; Mahmood & Rahimullah 1947; Barman 1993; Jayaram 1995) assigned to O. peninsularis. Presently O. cunna is known only from northeast India and Myanmar | Vishwanath (2010c)      |
|                 |                | Osteochilus nashii                     | This species is restricted to Maharashtra, Karnataka, Kerala and Tamil Nadu. Earlier records of this taxon from Godavari and Krishna river basins could possibly represent Osteochilichthys godawaraiensis Babu Rao, 1977 | Ali et al. (2011)       |
|                 |                | Pethia stoliczkana (Day, 1871)         | This species is currently treated as restricted to Chindwin in Manipur, India and Myanmar and extends in range to Thailand and Laos | Dahanukar (2015)       |
|                 |                | Puntius paarah Day, 1865               | This species is restricted to Maharashtra, Karnataka, Kerala and Tamil Nadu. This species’ occurrence in Hyderabad needs validation, as this species occurs in Uttar Pradesh, Orissa, Assam, Meghalaya, West Bengal, Bihar, and Manipur | Abraham (2011e)         |
|                 |                | Puntius terio (Hamilton 1822)          | This species is restricted to Maharashtra, Karnataka, Kerala and Tamil Nadu. This species’ occurrence in Hyderabad needs validation, as this species occurs in Uttar Pradesh, Orissa, Assam, Meghalaya, West Bengal, Bihar, and Manipur | Dahanukar (2010a)       |
| Danionidae      |                | Amblypharyngodon microlepis (Bleeker, 1853) | The records of this species from Andhra Pradesh comes from literature that reports its presence from Kadapa district with no exact location mentioned. | Barman (1993)           |
| Family        | Order         | Species                                      | Reason                                                                                                                                                                                                 | Reference                      |
|--------------|---------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
|              | Cypriniformes | Amblypharyngodon melethnus (Valenciennes, 1844) | This species is distributed along the coastal water bodies in Karnataka, Kerala, and Tamil Nadu                                                                                                      | Abraham (2011a)                |
|              |               | Bengaela elanga (Hamilton, 1822)              | This species is restricted to West Bengal, Bihar, Assam, and Arunachal Pradesh                                                                                                                         | Vishwanath (2018)              |
|              |               | Devario malabaricus (Jerdon, 1849)           | This species is restricted to Western Ghats, known from Karnataka, Goa, Tamil Nadu, Maharashtra, and Kerala, and Sri Lanka                                                                                   | Raghavan et al. (2019)         |
|              |               | Opsarius bakeri (Day, 1865)                  | This species is restricted to Western Ghats, known from Karnataka, Tamil Nadu, and Kerala                                                                                                               | Dahanukar (2011a)              |
|              |               | Rasbora caverii (Jerdon, 1849)               | Although, Barman (1993) mention collection of this taxon from Kalwala Reservoir, Karimnagar district, we discount this record as it could be misidentified Rasbora species, as the lateral line scales of the specimens are mentioned as 32, while Rasbora caverii has 36 to 37 lateral line scales | Raghavan et al. (2019)         |
|              | Nemacheilidae | Nemacheilus anguilla Annandale, 1919          | This species is restricted to Western Ghats, known from Karnataka, Maharashtra, and Kerala                                                                                                               | Ali & Raghavan (2011)          |
|              |               | Schistura striata (Day, 1867)                | This species is restricted to Western Ghats, known from Karnataka, Tamil Nadu, and Kerala                                                                                                               | Abraham (2011b)                |
|              | Gobiiformes   | Gobiidae                                      |                                                                                                                                            |                                |
|              |               | Awaous grammepomus (Bleeker, 1849)           | This species is known from the coastal areas of India                                                                                                                                                  | Larson (2019)                  |
|              | Allidae       | Ailia coila (Hamilton, 1822)                 | This species does not occur in Godavari and Krishna river drainages, and occurs in northern river drainages in India                                                                                      | Ng & Dahanukar (2011)          |
|              |               | Eutropiichthys vacha (Hamilton, 1822)        | This species does not occur in Godavari and Krishna river drainages, and occurs in Ganges and Mahanadi river drainages                                                                                  | Ng (2010a)                     |
|              | Bagridae      | Hemibagrus menoda (Hamilton, 1822)           | This species is known from the Brahmaputra, Ganges and Mahanadi river drainages in India, Nepal, and Bangladesh                                                                                          | Ng (2010b)                     |
|              |               | Hemibagrus microphthalmus (Day, 1877)        | This species is known from the Irrawaddy, Sittang, and Salween river drainages in northeast India                                                                                                      | Ng (2010c)                     |
|              |               | Hemibagrus punctatus (Jerdon, 1849)          | This species is endemic to Western Ghats, known from Tamil Nadu, Kerala, and Karnataka                                                                                                                 | Raghavan & Ali (2011a)         |
|              |               | Mystus malabaricus (Jerdon, 1849)            | This species is endemic to Western Ghats, known from Tamil Nadu, Kerala, Mahanadi, and Karnataka                                                                                                         | Abraham (2011c)                |
|              |               | Mystus montanus (Jerdon, 1849)               | This species is endemic to Western Ghats, known from Tamil Nadu, Kerala, and Karnataka                                                                                                                 | Dahanukar (2011c)              |
|              |               | Rita chrysea Day, 1877                      | This species is restricted to Mahanadi river drainage, known from Odisha and Chhattisgarh                                                                                                               | Dahanukar (2010d)              |
|              | Claridae      | Clarias batrachus (Linnaeus, 1758)           | Due to recent taxonomic change this species has been restricted in distribution to Java, Indonesia, while the nomen Clarias magur (Hamilton, 1822) has been applied to this taxon occurring in Indian subcontinent, Hence, the nomen is not applicable to India | Ng & Kottelat (2008)          |
|              | Horabagidae   | Pachypterus atherinoides (Bloch, 1794)        | Although it is opined that the species may be probably extant in Telangana State, no confirmed record exists                                                                                             | Ng (2010d)                     |
|              | Siluridae     | Ompok malabaricus (Valenciennes, 1840)       | This species is endemic to the Indian peninsula with its distribution ranging in Maharashtra, Goa and Karnataka and Kerala along the Western Ghats mountain range | Jayaram (2010)                 |
|              |               | Gogangra viridescens (Hamilton, 1822)        | This species is known from the Ganges and Brahmaputra river drainages in India and Nepal                                                                                                               | Ng (2010e)                     |
|              | Synbranchiformes | Mastacembelidae | Macrognathus guentheri (Day, 1865) | This species is endemic to Western Ghats, known from Kerala                                                                                                                                            | Dahanukar (2011d)              |
Image 1. *Anguilla bengalensis* (Gray, 1831)

Image 2. *Notopterus synurus* (Bloch & Schneider, 1801)

Image 3. *Chitala chitala* (Hamilton, 1822)

Image 4. *Corica soborna* Hamilton, 1822

Image 5. *Lepidocephalichthys gurtea* (Hamilton, 1822)

Image 6. *Lepidocephalichthys thermalis* (Valenciennes, 1846)

Image 7. *Indoreonectes telanganaensis* Prasad et al., 2020

Image 8. *Paracanthocobitis cf. batia* (Hamilton, 1822)

Image 9. *Paracanthocobitis cf. mooreh* (Sykes, 1839)

Image 10. *Schistura denisoni* (Day, 1867)
Image 11. *Cirrhinus reba* (Hamilton, 1822)

Image 12. *Cyprinus carpio* Linnaeus, 1758

Image 13. *Dawkinsia filamentosa* (Valenciennes, 1844)

Image 14. *Garra mulya* (Sykes, 1839)

Image 15. *Gymnostomus anza* (Hamilton, 1807)

Image 16. *Hypsobulus kohli* (Sykes, 1839)

Image 17. *Labeo calbasu* (Hamilton, 1822)

Image 18. *Labeo catla* (Hamilton, 1822)

Image 19. *Labeo porcellus* (Heckel, 1844)

Image 20. *Labeo rahita* (Hamilton, 1822)
Image 31. *Systomus sarana* (Hamilton, 1822)

Image 32. *Amblypharyngodon mola* (Hamilton, 1822)

Image 33. *Barilius barila* (Hamilton, 1822)

Image 34. *Danio rerio* (Hamilton, 1822)

Image 35. *Devario aequipinnatus* (McClelland, 1839)

Image 36. *Devario devario* (Hamilton, 1822)

Image 37. *Esomus danrica* (Hamilton, 1822)

Image 38. *Laubuka laubuca* (Hamilton, 1822)

Image 39. *Opsarius bendelisis* (Hamilton, 1807)

Image 40. *Rasbora daniconius* (Hamilton, 1822)
Image 51. *Rita gogra* (Sykes, 1839)  
Image 52. *Rita kuturnee* (Sykes, 1839)  
Image 53. *Sperata oor* (Hamilton, 1822)  
Image 54. *Sperata seenghela* (Sykes, 1839)  
Image 55. *Bagarius bagarius* (Hamilton, 1822)  
Image 56. *Gagata itchkeera* (Sykes, 1839)  
Image 57. *Pangasius pangasius* (Hamilton, 1822)  
Image 58. *Pangasiadanodon hypophthalmus* (Sauvage, 1878)  
Image 59. *Ompok bimaculatus* (Bloch, 1794)  
Image 60. *Wallago attu* (Bloch & Schneider, 1801)
Fishes of Telangana

Image 71. *Channa striata* (Bloch, 1793)

Image 72. *Boidis boidis* (Hamilton, 1822)

Image 73. *Etroplus suratensis* (Bloch, 1790)

Image 74. *Oreochromis mossambicus* (Peters, 1852)

Image 75. *Oreochromis niloticus* (Linnaeus, 1758)

Image 76. *Pseudetroplus maculatus* (Bloch, 1795)

Image 77. *Aplodinthus panchax* (Hamilton, 1822)

Image 78. *Gambusia affinis* (Baird & Girard, 1853)

Image 79. *Poecliia reticulata* Peters, 1859

Image 80. *Xenotodon caniila* (Hamilton, 1822)
Abraham, R. (2011d). *Oryzias melastigma*. The IUCN Red List of Threatened Species 2011: e.T172408A6886249. Downloaded on 13 June 2020. https://doi.org/10.2305/IUCN.UK.2011-1.RLTS.T172408A6886249.en

Abraham, R. (2011e). *Puntius parrah*. The IUCN Red List of Threatened Species 2011: e.T172380A6879630. Downloaded on 13 June 2020. https://doi.org/10.2305/IUCN.UK.2011-1.RLTS.T172380A6879630.en

Abraham, R. (2015). *Haludaria melanampyx*. The IUCN Red List of Threatened Species 2015: e.T172427A70225441. Downloaded on 13 June 2020. https://doi.org/10.2305/IUCN.UK.2015-1.RLTS.T172427A70225441.en

Ali, A., R. Raghavan & N. Dahanukar (2011). *Osteochilus nasili*. The IUCN Red List of Threatened Species 2011: e.T172453A6895151. Downloaded on 16 February 2021. https://doi.org/10.2305/IUCN.UK.2011-1.RLTS.T172453A6895151.en

Barman, R.P. (1993). *Pisces - Freshwater fishes*, pp. 89–334. In: *State Fauna Series 5, Fauna of Andhra Pradesh*, Part I. Zoological Survey of India, Kolkata, 334 pp.

Barman, R.P. (2003). On the fish fauna of Koil Sagar, Mahbubnagar District, Andhra Pradesh, South India with suggestions for conservation of its vulnerable species. *Records of the Zoological Survey of India* 101(3&4): 109–114.

Chandrasekhar, S.V.A. (2004). Fish fauna of Hyderabad and its environs. *Zoos’ Print Journal* 19(7): 1530–1533. https://doi.org/10.11609/JoTT.ZPJ.900.1530-3

Dahanukar, N. (2010a). *Puntius terio*. The IUCN Red List of Threatened Species 2010: e.T166560A6236743. Downloaded on 08 June 2020. https://doi.org/10.2305/IUCN.UK.2010-4.RLTS.T166560A6236743.en

Dahanukar, N. (2010b). *Labeo dyocheilus*. The IUCN Red List of Threatened Species 2010: e.T166625A6249964. Downloaded on 26 July 2020. https://doi.org/10.2305/IUCN.UK.2010-4.RLTS.T166625A6249964.en

Dahanukar, N. (2010c). *Labeo microphthalmus*. The IUCN Red List of Threatened Species 2010: e.T168354A6481613. Downloaded on 26 July 2020. https://doi.org/10.2305/IUCN.UK.2010-4.RLTS.T168354A6481613.en

Dahanukar, N. (2010d). *Rita chrysea*. The IUCN Red List of Threatened Species 2011: e.T166625A6249964. Downloaded on 25 July 2020. https://doi.org/10.2305/IUCN.UK.2011-1.RLTS.T172484A6901658.en

Dahanukar, N. (2011a). *Barilius bakeri*. The IUCN Red List of Threatened Species 2011: e.T169603A6652158. Downloaded on 08 June 2020. https://doi.org/10.2305/IUCN.UK.2011-1.RLTS.T169603A6652158.en

Dahanukar, N. (2011b). *Garra maclellandii*. The IUCN Red List of Threatened Species 2011: e.T166457A6213592. Downloaded on 10 June 2020. https://doi.org/10.2305/IUCN.UK.2011-1.RLTS.
of Threatened Species 2011: e.T172424A6889533. Downloaded on 26 July 2020. https://doi.org/10.2305/IUCN.UK.2011-1.RLTS. T172424A6889533.en

Raghavan, R., K.R.R. Devi, S. Goonatilake, M. Fernando & O. Kotagama (2019). Devario malabaricus. The IUCN Red List of Threatened Species 2019: e.T169602A60597039. Downloaded on 10 June 2020. https://doi.org/10.2305/IUCN.UK.2019-3.RLTS. T169602A60597039.en

Rahimullah, M. (1943a). Fish survey of Hyderabad state. Part 1. A preliminary report on fishes found in the Godavari, Purna, Kistna, Tungabhadra and Siddha Rivers. Journal of the Bombay Natural History Society 43(3 & 4): 648–653.

Rahimullah, M. (1943b). Fish survey of Hyderabad state. Part II. Fishes of Hyderabad city and its suburbs. Journal of the Bombay Natural History Society 44 (1&2): 88–91.

Rahimullah, M. (1944). Fish Survey of Hyderabad State Part III – Fishes of the Medak District. Journal of the Bombay Natural History Society 45: 73–77.

Rahman, M.M., M. Norén, A.R. Mollah & S. Kullander (2018). The identity of Osteobrama cotio, and the status of "Osteobrama serrata" (Teleostei: Cyprinidae: Cyprininae). Zootaxa 4504(1): 105–118.

Rao, C.A.N., J. Deepa & M. Hakeel (2011). Comparative account on ichthyofauna of Pocharam and Wyra lakes of Andhra Pradesh, India. Journal of Threatened Taxa 3(2): 1564–1566. https://doi.org/10.11609/jott.o1933.1564-6

Rao, C.A.N., M. Hakeel & J. Deepa (2010). Ichthyofauna, pp. 75–98. In: Limnological and Faunistic Studies of Pocharam Lake, Nizamabad-Medak District, Andhra Pradesh. Wetland Ecosystem Series, 13. Zoological Survey of India, Kolkata, 181pp.

Rao, M.B. & Y.S. Reddy (1984). Fish fauna of Hussainsagar. Jantu 2: 1–16.

Shaji, C.P. (2011). Hyperhampus xanthopterus. The IUCN Red List of Threatened Species 2011: e.T172458A6896116. Downloaded on 26 July 2020. https://doi.org/10.2305/IUCN.UK.2011-1.RLTS. T172458A6896116.en

Shyamsundar, R., K.K. Prasad & C. Srinivasulu (2017). Ichthyofauna of Udayasamudram Reservoir in Nalgonda District, Telangana State, India. Journal of Threatened Taxa 9(12): 11087–11094. https://doi.org/10.11609/jott.3417.9.12.11087-11094

Singh, L.K. (2010). Garra lamta. The IUCN Red List of Threatened Species 2010: e.T166527A6229042. Downloaded on 10 June 2020. https://doi.org/10.2305/IUCN.UK.2010-4.RLTS.T166527A6229042. en

Srivastava, A.K., B. Laxmappa, B.R. Rao & G. Sailu (2017). Fish Biodiversity of Telangana State. Telangana State Biodiversity Board, Hyderabad, Telangana State, India, iv+52pp.

Talwar, P.K. & A.G. Jhingran (1991a). Inland Fishes of India and Adjacent Countries - Vol. I. Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi, 1–542pp.

Talwar, P.K. & A.G. Jhingran (1991b). Inland Fishes of India and Adjacent Countries - Vol. II. Oxford & IBH Publishing Co. Pvt. Ltd., New Delhi, 543–1158pp.

Vishwanath, W. (2010a). Bangana diplostoma. The IUCN Red List of Threatened Species 2010: e.T168300A6477390. Downloaded on 13 June 2020. https://doi.org/10.2305/IUCN.UK.2010-4.RLTS. T168300A6477390.en

Vishwanath, W. (2010b). Osteobrama belangeri. The IUCN Red List of Threatened Species 2010: e.T168218A6467894. Downloaded on 13 June 2020. https://doi.org/10.2305/IUCN.UK.2010-4.RLTS. T168218A6467894.en

Vishwanath, W. (2010c). Osteobrama cunma. The IUCN Red List of Threatened Species 2010: e.T168602A6523134. Downloaded on 13 June 2020. https://doi.org/10.2305/IUCN.UK.2010-4.RLTS. T168602A6523134.en

Vishwanath, W. (2018). Bengala elanga (amended version of 2010 assessment). The IUCN Red List of Threatened Species 2018: e.T166419A128734771. Downloaded on 26 July 2020. https://doi. org/10.2305/IUCN.UK.2010-4.RLTS.T166419A128734771.en
Spatiotemporal movement pattern of Asian Elephants *Elephas maximus* Linnaeus, 1758 in Sindhudurg District, Maharashtra, India — Milind Diggambhar Patil, Vinayak Krishna Patil & Ninad Avinash Mungi, Pp. 18099–18109

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