



## Checklist of Ichthyofaunal diversity of Nagaland, India

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### Abstract

This study compiles a checklist to summarize findings from systematic studies and researches on the freshwater fish faunal resources including of various rivers and aquatic resources of the north eastern state of Nagaland, India utilizing multiple data sources, comprising of local scientific research surveys and specialized fishery databases. The need of such a review is of utmost importance as systematic status of many of the species has changed, and reorganization and updating of the published information has become essential for future ichthyofaunal studies in the state. The total confirmed fish species as per the scientific review of literature of the state of Nagaland consists of 216 species belonging to 29 families. The most diverse family is Cyprinidae with 89 species (41.2%), followed by Sisoridae with 23 species (10.6%), Nemacheilidae with 20 species (9.3%), Bagridae with 12 species (5.6%) while the remaining 25 families account for rest of the species in the list. This paper will help in making appropriate conservation and management planning for fisheries in all the rivers of Nagaland and would also be helpful in looking at the various degenerative reasons for population decline of fishes.

**Keywords:** checklist; conservation; fish diversity; freshwater ichthyofauna; Nagaland

### 1 | INTRODUCTION

The North East region of India is considered to be one of the major hotspots of freshwater fish biodiversity in the world (Kottelat and Whitten 1996; Ramanujam *et al.* 2010). One of the most important states of this part is Nagaland a hilly mountainous state, in the north eastern corner of the country situated between 26.1584°N, 94.5624°E, with 16,579 km<sup>2</sup> of total area and has many hill streams and rivers and rich exotic fish fauna. Nagaland shares its fish genetic resources with that of Indo-Gangetic plains and to a lesser extent with the Myanmar and South Chinese fauna (Bhattacharjya *et al.* 2018). A large number of fish species of the state inhabit both the lotic and lentic water bodies with climatic conditions ranging from temperate regions to lower foothill plains

(Goswami *et al.* 2012). The fish resources in the lotic systems have not been completely explored because many of the rivers are located in unapproachable mountainous steep terrain with dense forest cover. The topographic and climatic diversity coupled with intriguing network of drainage systems support many commercial species. The major rivers of Nagaland and its tributaries are Doyang, Dikhu and Dhansiri flowing into the Brahmaputra River, Tizu River flows into the Chindwin river of Myanmar. The other rivers and tributary forms are Milak, Dzu, Langlong, Zungki, Likimro, Lanye, Dzuza. Manglu, Tsurong, Nanung, Tsurang, Tsumok and Menung (Bhattacharjya *et al.* 2018). One of the earliest known fishery resources studied in the state of Nagaland recorded 18 species from similar streams in the southern watershed (Chindwin drainage)

of the Naga Hills (Hora and Mukerji 1935; Hora 1936) followed by many scientific studies and surveys have been done to survey and assess various aquatic resources of Nagaland but a comprehensive report of all the species together is not available so the present review has been envisaged to enlist all of the fish fauna of Nagaland from such available works of scientific literature.

## 2 | METHODOLOGY

The present review is based on the available primary literature available online in the form of research articles, technical reports, technical bulletins, annual reports and books were performed using a combination of words such as “specific name of the river + fish faunal diversity, ichthyofaunal diversity, fisheries”. The collected secondary data were compiled, collated and arranged to obtain fish diversity data of Nagaland. The authors also envisaged their search base through offline resources for dissertational studies but are not included for the lack of their scientific support. The prepared checklist has been prepared only on the basis of authenticated journal resources indexed in Scopus or Web of Science. With the given keywords, the search were mostly found related to the following datasets for the checklist of the fishes: Hora and Mukerji (1935); Acharjee *et al.* (2012); Goswami *et al.* (2012); Odyuo and Nagesh (2012); Imnatoshi and Ahmed (2013); Humtsoe and Bordoloi (2014); Baidya and Biswas (2018); Kumzuk (2021); Konyak (2022) and Praveenraj *et al.* (2022). We have not taken into consideration any description that has appeared in a predatory journal where the peer review has been compromised for the purposes of the current checklist (Beall 2015). Besides, for the fish classification and IUCN status, Talwar and Jhingran (1991), Jayaram (2010) and the valid nomenclature of species was adopted as per Eschmeyer’s catalog of fishes (Eschmeyer *et al.* 2021) and Fishbase (Froese and Pauly 2021) has been referred and utilized.

## 3 | RESULTS AND DISCUSSION

This review work recorded a total of 216 species belonging to 29 families from the state of Nagaland. Cyprinidae

is the highest species inhabited family comprising of 89 species followed by Sisoridae with 23, Nemacheilidae with 20, Bagridae with 12, Siluridae with 8 species (Table 1). As per the IUCN Red list category, 144 numbers of species are in the category of Least Concern, 17 into Data Deficient, 6 are in Endangered category, 28 Vulnerable, 17 in Near Threatened and 4 in Not Evaluated categories. The IUCN categorization of the fishes showing 144 species in Least Concern category clearly shows the high and pristine water quality and availability of enough food resources for the fishes. This high number can also be attributed to the geographical location of the rivers which remain scarcely inaccessible for any type of anthropogenic activities. But on the other hand, many rivers and aquatic resources in Nagaland may have been affected as their environment is threatened by habitat damage, over fishing, use of electro fishing and dynamic bombing activities (Konyak 2022). This high number can also be attributed to the geographical location of the rivers which remain scarcely inaccessible for any type of anthropogenic activities. But on the other hand, many rivers and aquatic resources in Nagaland may have been affected as their environment is threatened by habitat damage, over fishing, use of electro fishing and dynamic bombing activities (Konyak 2022). Pesticides especially organophosphate randomly used in the bank side paddy fields can affect the fish population (Acharjee *et al.* 2012). According to Kottelat and Whitten 1996), drastic reduction in abundance of the freshwater fishes in the north eastern region is due to destruction of the habitat, overexploitation and other anthropogenic effects. Frequent changes in the course of channels, bank erosion and coal mining (Semy and Singh 2021) followed by a high rate of siltation have been identified as major threats to the riverine biota (total aquatic organisms) as they have a great bearing on the faunal composition of the river. But studies performed on plankton diversity and abundance in selected rivers of Nagaland (Gurumayum *et al.* 2014) and presence of some pollution tolerant species have shown their dominance during the influx of rainwater proving the lack of impact of anthropogenic activities in major rivers of Nagaland.

**TABLE 1** Annotated checklist of fishes in Nagaland state, India.

| Serial            | Family and scientific name                             | Common name      | Sources                                                                                                                                          | IUCN status |
|-------------------|--------------------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>Cyprinidae</b> |                                                        |                  |                                                                                                                                                  |             |
| 1.                | <i>Pethia dikhuensis</i> Praveenraj <i>et al.</i> 2022 | --               | Praveenraj <i>et al.</i> 2022                                                                                                                    | NE          |
| 2.                | <i>Labeo dero</i> (Hamilton, 1822)                     | Kursha           | Odyuo and Nagesh 2012;                                                                                                                           | LC          |
| 3.                | <i>Puntius ticto</i> (Hamilton, 1822)                  | Ticto barb       | Hora and Mukerji 1935; Acharjee <i>et al.</i> 2012; Odyuo and Nagesh 2012; Humtsoe and Bordoloi 2014                                             | LC          |
| 4.                | <i>Tor putitora</i> (Hamilton, 1822)                   | Putitor mah-seer | Goswami <i>et al.</i> 2012; Acharjee <i>et al.</i> 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013; Humtsoe and Bordoloi 2014; Kumzuk 2021 | EN          |

**TABLE 1** Continued.

| Serial | Family and scientific name                          | Common name                 | Sources                                                                                                                                                            | IUCN status |
|--------|-----------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 5.     | <i>Amblypharyngodon mola</i> (Hamilton, 1822)       | Mola carplet                | Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Baidya and Biswas 2018                                                             | LC          |
| 6.     | <i>Bangana dero</i> (Hamilton, 1822)                | Kalabans                    | Goswami <i>et al.</i> 2012; Imnatoshi and Ahmed 2013; Kumzuk 2021                                                                                                  | LC          |
| 7.     | <i>Devario affinis</i> (Blyth, 1860)                | NK                          | Baidya and Biswas 2018                                                                                                                                             | DD          |
| 8.     | <i>Devario regina</i> (Fowler, 1934)                | Queen danio                 | Baidya and Biswas 2018                                                                                                                                             | LC          |
| 9.     | <i>Devario assamensis</i> (Barman, 1984)            | NK                          | Baidya and Biswas 2018                                                                                                                                             | VU          |
| 10.    | <i>Salmostoma phulo</i> (Hamilton, 1822)            | Finescale razorbelly minnow | Baidya and Biswas 2018                                                                                                                                             | LC          |
| 11.    | <i>Labeo boga</i> (Hamilton, 1822)                  | Boga                        | Goswami <i>et al.</i> 2012                                                                                                                                         | LC          |
| 12.    | <i>Barilius barnoides</i> (Vinciguerra, 1890)       | -                           | Goswami <i>et al.</i> 2012                                                                                                                                         | DD          |
| 13.    | <i>Chagunius chagunio</i> (Hamilton, 1822)          | Chaguni                     | Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Kumzuk 2021                                                                                                     | LC          |
| 14.    | <i>Aspidoparia morar</i> (Hamilton, 1822)           | Aspidoparia                 | Kamarkar and Das 2005; Goswami <i>et al.</i> 2012                                                                                                                  | LC          |
| 15.    | <i>Chagunius nicholsi</i> (Myers, 1924)             | Chagunius nicholsova        | Goswami <i>et al.</i> 2012; Baidya and Biswas 2018; Kumzuk 2021                                                                                                    | LC          |
| 16.    | <i>Chela cachius</i> (Hamilton, 1822)               | Silver hatch-et chela       | Goswami <i>et al.</i> 2012                                                                                                                                         | LC          |
| 17.    | <i>Chela laubuca</i> (Hamilton, 1822)               | Blue laubuca                | Goswami <i>et al.</i> 2012                                                                                                                                         | NT          |
| 18.    | <i>Ctenopharyngodon idella</i> (Valenciennes, 1844) | Grass carp                  | Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013; Kumzuk 2021                                              | LC          |
| 19.    | <i>Cirrhinus mrigala</i> (Hamilton, 1822)           | White carp                  | Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013; Kumzuk 2021                                              | LC          |
| 20.    | <i>Cirrhinus reba</i> (Hamilton, 1822)              | Reba carp                   | Goswami <i>et al.</i> 2012                                                                                                                                         | LC          |
| 21.    | <i>Crossocheilus burmanicus</i> Hora, 1936          | Burmese latia               | Goswami <i>et al.</i> 2012; Baidya and Biswas 2018; Kumzuk 2021                                                                                                    | LC          |
| 22.    | <i>Crossocheilus latius</i> (Hamilton, 1822)        | Gangetic latia              | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013; Kumzuk 2021                                                    | LC          |
| 23.    | <i>Cyprinion semiplotum</i> (McClelland, 1839)      | Assamese king fish          | Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Kumzuk 2021                                                                                                     | VU          |
| 24.    | <i>Cyprinus carpio</i> Linnaeus, 1758               | Common carp                 | Goswami <i>et al.</i> 2012; Imnatoshi and Ahmed 2013                                                                                                               | VU          |
| 25.    | <i>Barilius barila</i> (Hamilton, 1822)             | Barred baril                | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013; Humtsoe and Bordoloi 2014; Baidya and Biswas 2018; Kumzuk 2021 | LC          |
| 26.    | <i>Barilius vagra</i> (Hamilton, 1822)              | Korang                      | Goswami <i>et al.</i> 2012; Kumzuk 2021                                                                                                                            | LC          |
| 27.    | <i>Barilius clavatus</i> (Hamilton, 1822)           | NK                          | Hora and Mukerji 1935                                                                                                                                              | NE          |
| 28.    | <i>Labeo angra</i> (Hamilton, 1822)                 | Angra labeo                 | Kamarkar and Das 2005; Goswami <i>et al.</i> 2012                                                                                                                  | LC          |
| 29.    | <i>Labeo bata</i> (Hamilton, 1822)                  | Minor carp                  | Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013; Kumzuk 2021                                              | LC          |
| 30.    | <i>Labeo ariza</i> (Hamilton, 1807)                 | Reba                        | Goswami <i>et al.</i> 2012                                                                                                                                         | VU          |
| 31.    | <i>Labeo calbasu</i> (Hamilton, 1822)               | Kalbasu                     | Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Kumzuk 2021                                                                                                     | LC          |
| 32.    | <i>Gibelion catla</i> (Hamilton, 1822)              | Catla                       | Goswami <i>et al.</i> 2012; Kumzuk 2021                                                                                                                            | LC          |

**TABLE 1** Continued.

| Serial | Family and scientific name                              | Common name           | Sources                                                                                                                                                            | IUCN status |
|--------|---------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 33.    | <i>Labeo dyocheilus</i> (McClelland, 1839)              | Ghora loach           | Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Kumzuk 2021                                                                                                     | LC          |
| 34.    | <i>Labeo fimbriatus</i> (Bloch, 1795)                   | Fringed lipped carp   | Goswami <i>et al.</i> 2012; Imnatoshi and Ahmed 2013                                                                                                               | LC          |
| 35.    | <i>Labeo gonius</i> (Hamilton, 1822)                    | Kuria labeo           | Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Kumzuk 2021                                                                        | LC          |
| 36.    | <i>Labeo pangusia</i> (Hamilton, 1822)                  | Pangusia labeo        | Goswami <i>et al.</i> 2012; Imnatoshi and Ahmed 2013; Kumzuk 2021                                                                                                  | NT          |
| 37.    | <i>Labeo rohita</i> (Hamilton, 1822)                    | Rohu fish             | Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013; Kumzuk 2021                                              | LC          |
| 38.    | <i>Esomus danricus</i> (Hamilton, 1822)                 | Indian flying barb    | Goswami <i>et al.</i> 2012; Imnatoshi and Ahmed 2013; Baidya and Biswas 2018; Kumzuk 2021                                                                          | LC          |
| 39.    | <i>Danio dangila</i> (Hamilton, 1822)                   | Dangila danio         | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012; Imnatoshi and Ahmed 2013; Humtsoe and Bordoloi 2014; Kumzuk 2021                                                | LC          |
| 40.    | <i>Danio rerio</i> (Hamilton, 1822)                     | Zebra fish            | Goswami <i>et al.</i> 2012; Humtsoe and Bordoloi 2014; Baidya and Biswas 2018                                                                                      | LC          |
| 41.    | <i>Devario acuticephala</i> (Hora, 1921)                | Manipur danio         | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012                                                                                                                  | VU          |
| 42.    | <i>Devario aequipinnatus</i> (McClelland, 1839)         | Giant danio           | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013; Humtsoe and Bordoloi 2014; Baidya and Biswas 2018; Kumzuk 2021 | LC          |
| 43.    | <i>Devario devario</i> (Hamilton, 1822)                 | Bengal danio          | Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Kumzuk 2021                                                                                                     | LC          |
| 44.    | <i>Devario naganensis</i> (Chaudhuri, 1912)             | NK                    | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012; Kumzuk 2021                                                                                                     | VU          |
| 45.    | <i>Hypophthalmichthys molitrix</i> (Valenciennes, 1844) | Silver carp           | Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013; Kumzuk 2021                                                                           | NT          |
| 46.    | <i>Hypophthalmichthys nobilis</i> (Richardson, 1845)    | Bighead carp          | Goswami <i>et al.</i> 2012                                                                                                                                         | DD          |
| 47.    | <i>Garra rupecula</i> (McClelland, 1839)                | Mishmi garra          | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012                                                                                                                  | NT          |
| 48.    | <i>Garra lamta</i> (Hamilton, 1822)                     | Lamta garra           | Goswami <i>et al.</i> 2012                                                                                                                                         | VU          |
| 49.    | <i>Garra kemp</i> Hora, 1921                            | Kemp garra            | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012; Humtsoe and Bordoloi 2014                                                                                       | LC          |
| 50.    | <i>Garra notata</i> (Blyth, 1860)                       | Tenasserim garra      | Goswami <i>et al.</i> 2012                                                                                                                                         | LC          |
| 51.    | <i>Garra maclellandi</i> (Jerdon, 1849)                 | Cauvery garra         | Goswami <i>et al.</i> 2012; Baidya and Biswas 2018; Kumzuk 2021                                                                                                    | LC          |
| 52.    | <i>Oreinus molesworthi</i> (Chaudhuri, 1913)            | Blunt-nosed snowtrout | Hora and Mukerji 1935                                                                                                                                              | DD          |
| 53.    | <i>Garra lissorhynchus</i> (McClelland, 1842)           | Khasi garra           | Hora and Mukerji 1935; Goswami <i>et al.</i> , 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013; Humtsoe and Bordoloi 2014; Kumzuk 2021                       | LC          |
| 54.    | <i>Garra naganensis</i> Hora, 1921                      | Naga garra            | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013                                                                 | LC          |
| 55.    | <i>Garra nasuta</i> (McClelland, 1838)                  | Khasi garra           | Goswami <i>et al.</i> 2012                                                                                                                                         | LC          |
| 56.    | <i>Garra gotyla</i> Gray, 1830)                         | Gotyla                | Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012; Imnatoshi and Ahmed 2013; Kumzuk 2021                                                                     | LC          |

**TABLE 1** Continued.

| Serial | Family and scientific name                             | Common name               | Sources                                                                                                                                                                  | IUCN status |
|--------|--------------------------------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 57.    | <i>Garra annandalei</i> Hora, 1921                     | Annandala garra           | Goswami <i>et al.</i> 2012                                                                                                                                               | LC          |
| 58.    | <i>Garra gravelyi</i> (Annandale, 1919)                | Burmese garra             | Imnatoshi and Ahmed 2013                                                                                                                                                 | NT          |
| 59.    | <i>Raiamas bola</i> (Hamilton, 1822)                   | Trout barb                | Goswami <i>et al.</i> 2012                                                                                                                                               | VU          |
| 60.    | <i>Salmostoma bacaila</i> (Hamilton, 1822)             | Large razor-belly minnow  | Goswami <i>et al.</i> 2012                                                                                                                                               | LC          |
| 61.    | <i>Salmostoma acinaces</i> (Valenciennes, 1844)        | Silver razor-belly minnow | Goswami <i>et al.</i> 2012                                                                                                                                               | LC          |
| 62.    | <i>Schizothorax richardsonii</i> (Gray, 1832)          | Snowtrout                 | Goswami <i>et al.</i> 2012; Kumzuk 2021                                                                                                                                  | VU          |
| 63.    | <i>Systomus sarana</i> (Hamilton, 1822)                | Olive barb                | Kumzuk <i>et al.</i> 2019                                                                                                                                                | LC          |
| 64.    | <i>Osteobrama cotio</i> (Hamilton, 1822)               | Cotio Hafua               | Goswami <i>et al.</i> 2012                                                                                                                                               | NT          |
| 65.    | <i>Puntius chola</i> (Hamilton, 1822)                  | Swamp barb                | Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013; Kumzuk 2021                                                    | LC          |
| 66.    | <i>Puntius terio</i> (Hamilton, 1822)                  | Onespot barb              | Goswami <i>et al.</i> 2012                                                                                                                                               | LC          |
| 67.    | <i>Puntius sophore</i> (Hamilton, 1822)                | Pool barb                 | Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013; Humtsoe and Bordoloi 2014; Baidya and Biswas 2018; Kumzuk 2021 | LC          |
| 68.    | <i>Pethia conchoni</i> (Hamilton, 1822)                | Rosy barb                 | Hora and Mukerji 1935; Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012; Baidya and Biswas 2018                                                                   | LC          |
| 69.    | <i>Puntius sarana</i> (Hamilton, 1822)                 | Olive barb                | Goswami <i>et al.</i> 2012                                                                                                                                               | VU          |
| 70.    | <i>Pethia ticto</i> (Hamilton, 1822)                   | Ticto barb                | Goswami <i>et al.</i> 2012; Imnatoshi and Ahmed 2013; Kumzuk 2021                                                                                                        | LC          |
| 71.    | <i>Puntius shalynius</i> (Hamilton, 1822)              | Shalyni barb              | Goswami <i>et al.</i> 2012                                                                                                                                               | VU          |
| 72.    | <i>Poropuntius clavatus</i> (McClelland, 1845)         | Stedman barb              | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012                                                                                                                        | NT          |
| 73.    | <i>Rasbora daniconius</i> (Hamilton, 1822)             | Slender rasbora           | Goswami <i>et al.</i> 2012                                                                                                                                               | LC          |
| 74.    | <i>Raiamas guttatus</i> (Day, 1870)                    | Burmese trout             | Goswami <i>et al.</i> 2012                                                                                                                                               | LC          |
| 75.    | <i>Rasbora rasbora</i> (Hamilton, 1822)                | Seluang fish              | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012                                                                                                                        | LC          |
| 76.    | <i>Neolissochilus hexagonolepis</i> (McClelland, 1839) | Chocolate mahseer         | Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013; Kumzuk 2021                                                                                 | NT          |
| 77.    | <i>Neolissochilus hexastichus</i> (McClelland, 1839)   | McClelland's Bokar        | Goswami <i>et al.</i> 2012; Imnatoshi and Ahmed 2013                                                                                                                     | NT          |
| 78.    | <i>Dawkinsia filamentosa</i> (Valenciennes, 1844)      | Blackspot barb            | Goswami <i>et al.</i> 2012                                                                                                                                               | VU          |
| 79.    | <i>Tor progeneius</i> (McClelland, 1839)               | Jungha pithia             | Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012                                                                                                                        | EN          |
| 80.    | <i>Tor chelynoides</i> (McClelland, 1839)              | Dark masheer              | Goswami <i>et al.</i> 2012                                                                                                                                               | VU          |
| 81.    | <i>Tor tor</i> (Hamilton, 1822)                        | Mahseer                   | Hora and Mukerji 1935; Goswami <i>et al.</i> , 2012; Odyuo and Nagesh 2012; Acharjee <i>et al.</i> , 2012; Kumzuk 2021                                                   | DD          |
| 82.    | <i>Labeo catla</i> (Hamilton, 1822)                    | Catla                     | Acharjee <i>et al.</i> 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013                                                                                             | LC          |

**TABLE 1** Continued.

| Serial               | Family and scientific name                                  | Common name               | Sources                                                                                                                                                                  | IUCN status |
|----------------------|-------------------------------------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 83.                  | <i>Barilius barna</i> (Hamilton, 1822)                      | Barna baril               | Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013; Humtsoe and Bordoloi 2014; Baidya and Biswas 2018; Kumzuk 2021 | LC          |
| 84.                  | <i>Barilius tileo</i> (Hamilton, 1822)                      | Tileo baril               | Kamarkar and Das 2005; Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012                                                                                                 | LC          |
| 85.                  | <i>Barilius bendelisis</i> (Hamilton, 1807)                 | Hamilton's baril          | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013; Baidya and Biswas 2018; Kumzuk 2021                                  | LC          |
| 86.                  | <i>Barilius dogarsinghi</i> (Hora, 1921)                    | Manipur baril             | Hora and Mukerji 1935; Kamarkar and Das 2005; Goswami <i>et al.</i> 2012                                                                                                 | VU          |
| 87.                  | <i>Barilius shacra</i> (Hamilton, 1822)                     | Shacra baril              | Goswami <i>et al.</i> 2012                                                                                                                                               | LC          |
| 88.                  | <i>Cyprinus carpio specularis</i> Linnaeus, 1758            | Eurasian carp             | Odyuo and Nagesh 2012                                                                                                                                                    | VU          |
| 89.                  | <i>Cyprinus carpio communis</i> Linnaeus, 1758              | Eurasian carp             | Odyuo and Nagesh 2012                                                                                                                                                    | VU          |
| <b>Balitoridae</b>   |                                                             |                           |                                                                                                                                                                          |             |
| 90.                  | <i>Balitora brucei</i> Gray, 1830                           | Gray's stone loach        | Goswami <i>et al.</i> 2012                                                                                                                                               | NT          |
| 91.                  | <i>Balitora burmanica</i> Hora, 1932                        | Burmese stone loach       | Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012                                                                                                                        | LC          |
| <b>Nemacheilidae</b> |                                                             |                           |                                                                                                                                                                          |             |
| 92.                  | <i>Homalopteroides rupicola</i> (Prashad & Mukerji, 1929)   | Balitora skalkova         | Goswami <i>et al.</i> 2012                                                                                                                                               | LC          |
| 93.                  | <i>Schistura corica</i> (Hamilton, 1822)                    | Polka dotted Bengal loach | Baidya and Biswas 2018                                                                                                                                                   | LC          |
| 94.                  | <i>Schistura beavani</i> (Günther, 1868)                    | Creek loach               | Goswami <i>et al.</i> 2012; Baidya and Biswas 2018                                                                                                                       | LC          |
| 95.                  | <i>Schistura kangjupkhulensis</i> (Hora, 1921)              | Stone loaches             | Hora and Mukerji 1935; Kamarkar and Das 2005                                                                                                                             | EN          |
| 96.                  | <i>Schistura manipurensis</i> (Chaudhuri, 1912)             | Manipur loach             | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Humtsoe and Bordoloi 2014; Kumzuk 2021                                                         | NT          |
| 97.                  | <i>Schistura multifasciatus</i> (Day, 1878)                 | Stone loach               | Baidya and Biswas 2018; Kumzuk 2021                                                                                                                                      | LC          |
| 98.                  | <i>Schistura nagaensis</i> (Menon, 1987)                    | Naga käärrull             | Goswami <i>et al.</i> 2012                                                                                                                                               | VU          |
| 99.                  | <i>Schistura savona</i> (Hamilton, 1822)                    | Half banded loach         | Goswami <i>et al.</i> 2012                                                                                                                                               | LC          |
| 100.                 | <i>Schistura scaturigina</i> McClelland, 1839               | McClelland loach          | Goswami <i>et al.</i> 2012                                                                                                                                               | LC          |
| 101.                 | <i>Schistura sikmaiensis</i> (Hora, 1921)                   | Sikmai loach              | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012                                                                                                                        | LC          |
| 102.                 | <i>Schistura prashadi</i> (Hora, 1921)                      | Mustura prashadi          | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012; Imnatoshi and Ahmed 2013                                                                                              | VU          |
| 103.                 | <i>Schistura rupicola</i> McClelland, 1838                  | Stone loach               | Hora and Mukerji 1935                                                                                                                                                    | LC          |
| 104.                 | <i>Schistura reticulofasciata</i> (Singh & Bănărescu, 1982) | Stone loach               | Kumzuk 2021                                                                                                                                                              | VU          |
| 105.                 | <i>Schistura vinciguerrae</i> (Hora, 1935)                  | Stone loach               | Goswami <i>et al.</i> 2012; Humtsoe and Bordoloi 2014                                                                                                                    | LC          |
| 106.                 | <i>Schistura sijuensis</i> (Menon, 1987)                    | Stone loach               | Goswami <i>et al.</i> 2012                                                                                                                                               | EN          |
| 107.                 | <i>Nemacheilus botia</i> (Hamilton, 1822)                   | Mottled loach             | Hora and Mukerji 1935, Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013; Baidya and Biswas 2018                                               | LC          |
| 108.                 | <i>Schistura singhi</i> Menon, 1987                         | Stone loach               | Goswami <i>et al.</i> 2012                                                                                                                                               | VU          |

**TABLE 1** Continued.

| Serial                 | Family and scientific name                                   | Common name          | Sources                                                                                                                                    | IUCN status |
|------------------------|--------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 109.                   | <i>Paracanthocobitis zonalternans</i> (Blyth, 1860)          | Dwarf zipper loach   | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012                                                                                          | LC          |
| 110.                   | <i>Schistura subfusca</i> (McClelland, 1839)                 | –                    | Hora and Mukerji 1935                                                                                                                      | LC          |
| 111.                   | <i>Neonoemacheilus assamensis</i> (Menon, 1987)              | –                    | Imnatoshi and Ahmed 2013                                                                                                                   | NT          |
| <b>Botiidae</b>        |                                                              |                      |                                                                                                                                            |             |
| 112.                   | <i>Botia almorhae</i> Gray, 1831                             | Tiger loach          | Goswami <i>et al.</i> 2012                                                                                                                 | LC          |
| 113.                   | <i>Botia dario</i> (Hamilton, 1822)                          | Bengal loach         | Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Kumzuk 2021                                                | LC          |
| 114.                   | <i>Botia histrionica</i> Blyth, 1860                         | Golden zebra loach   | Goswami <i>et al.</i> 2012                                                                                                                 | LC          |
| 115.                   | <i>Botia rostrata</i> Günther, 1868                          | Gangetic loach       | Goswami <i>et al.</i> 2012                                                                                                                 | VU          |
| <b>Cobitidae</b>       |                                                              |                      |                                                                                                                                            |             |
| 116.                   | <i>Lepidocephalichthys annandalei</i> Chaudhuri, 1912        | Tilak loach          | Goswami <i>et al.</i> 2012                                                                                                                 | LC          |
| 117.                   | <i>Lepidocephalichthys berdmorei</i> (Blyth, 1860)           | Burmese loach        | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012; Humtsoe and Bordoloi 2014; Baidya and Biswas 2018; Kumzuk 2021                          | LC          |
| 118.                   | <i>Lepidocephalichthys guntea</i> (Hamilton, 1822)           | Guntea loach         | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012; Imnatoshi and Ahmed 2013; Humtsoe and Bordoloi 2014                                     | LC          |
| 119.                   | <i>Lepidocephalichthys irrorata</i> Hora, 1921               | Loktak loach         | Goswami <i>et al.</i> 2012                                                                                                                 | LC          |
| 120.                   | <i>Canthophrys gongota</i> (Hamilton, 1822)                  | Gongota loach        | Goswami <i>et al.</i> 2012; Humtsoe and Bordoloi 2014; Baidya and Biswas 2018                                                              | LC          |
| 121.                   | <i>Pangio pangia</i> (Hamilton, 1822)                        | Cinnamon loach       | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012; Baidya and Biswas 2018                                                                  | LC          |
| <b>Psilorhynchidae</b> |                                                              |                      |                                                                                                                                            |             |
| 122.                   | <i>Psilorhynchus balitora</i> (Hamilton, 1822)               | Torrent stone carp   | Goswami <i>et al.</i> 2012; Humtsoe and Bordoloi 2014; Baidya and Biswas 2018                                                              | LC          |
| 123.                   | <i>Psilorhynchus homaloptera</i> Hora & Mukerji, 1935        | Homaloptera minnow   | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013; Humtsoe and Bordoloi 2014; Kumzuk 2021 | LC          |
| 124.                   | <i>Psilorhynchus sucatio</i> (Hamilton, 1822)                | River stone carp     | Goswami <i>et al.</i> 2012; Humtsoe and Bordoloi 2014                                                                                      | LC          |
| <b>Sisoridae</b>       |                                                              |                      |                                                                                                                                            |             |
| 125.                   | <i>Gagata cenia</i> (Hamilton, 1822)                         | Indian gagata        | Goswami <i>et al.</i> 2012                                                                                                                 | LC          |
| 126.                   | <i>Glyptothorax cavia</i> (Hamilton, 1822)                   | Heart throat catfish | Goswami <i>et al.</i> 2012; Imnatoshi and Ahmed 2013                                                                                       | LC          |
| 127.                   | <i>Glyptothorax coheni</i> (Jenkins, 1910)                   | –                    | Goswami <i>et al.</i> 2012                                                                                                                 | LC          |
| 128.                   | <i>Glyptothorax dorsalis</i> Vinciguerra, 1890               | –                    | Baidya and Biswas 2018                                                                                                                     | LC          |
| 129.                   | <i>Glyptothorax indicus</i> Talwar, 1991                     | Catfish              | Goswami <i>et al.</i> 2012                                                                                                                 | LC          |
| 130.                   | <i>Glyptothorax manipurensis</i> (Menon, 1955)               | –                    | Goswami <i>et al.</i> 2012                                                                                                                 | VU          |
| 131.                   | <i>Glyptothorax ngapang</i> Vishwanath & Linthoingambi, 2007 | –                    | Baidya and Biswas 2018                                                                                                                     | LC          |
| 132.                   | <i>Glyptothorax platypogonides</i> (Bleeker, 1855)           | –                    | Goswami <i>et al.</i> 2012                                                                                                                 | LC          |
| 133.                   | <i>Glyptothorax saisii</i> (Jenkins, 1910)                   | –                    | Goswami <i>et al.</i> 2012                                                                                                                 | VU          |
| 134.                   | <i>Glyptothorax siamensis</i> Hora, 1923                     | –                    | Baidya and Biswas 2018                                                                                                                     | DD          |

**TABLE 1** Continued.

| Serial           | Family and scientific name                                      | Common name            | Sources                                                                                                          | IUCN status |
|------------------|-----------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------|-------------|
| 135.             | <i>Glyptothorax sinensis</i> (Regan, 1908)                      | –                      | Goswami <i>et al.</i> 2012                                                                                       | DD          |
| 136.             | <i>Glyptothorax telchitta</i> (Hamilton, 1822)                  | Pahari tellah          | Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013; Baidya and Biswas 2018; Kumzuk 2021 | LC          |
| 137.             | <i>Glyptothorax trilineatus</i> Blyth, 1860                     | Three-lined catfish    | Goswami <i>et al.</i> 2012; Humtsoe and Bordoloi 2014; Baidya and Biswas 2018; Kumzuk 2021                       | LC          |
| 138.             | <i>Exostoma berdmorei</i> Blyth, 1860                           | –                      | Goswami <i>et al.</i> 2012                                                                                       | DD          |
| 139.             | <i>Exostoma labiatum</i> (McClelland, 1842)                     | Burmese bat catfish    | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012; Humtsoe and Bordoloi 2014                                     | LC          |
| 140.             | <i>Exostoma stuarti</i> (Hora, 1923)                            | –                      | Goswami <i>et al.</i> 2012                                                                                       | DD          |
| 141.             | <i>Exostoma vinciguerrae</i> Regan, 1905                        | –                      | Goswami <i>et al.</i> 2012                                                                                       | DD          |
| 142.             | <i>Bagarius yarrelli</i> (Hamilton, 1822)                       | Goonch                 | Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012                                                                | VU          |
| 143.             | <i>Myersglanis jayarami</i> Vishwanath & Kosygin, 1999          | –                      | Goswami <i>et al.</i> 2012                                                                                       | VU          |
| 144.             | <i>Nangra nangra</i> (Hamilton, 1822)                           | Kosi nangra            | Goswami <i>et al.</i> 2012                                                                                       | LC          |
| 145.             | <i>Pseudecheneis sulcata</i> (McClelland, 1842)                 | Suker throat catfish   | Goswami <i>et al.</i> 2012; Baidya and Biswas 2018                                                               | LC          |
| 146.             | <i>Sisor rhabdophorus</i> Hamilton, 1822                        | Whip tailed catfish    | Goswami <i>et al.</i> 2012                                                                                       | LC          |
| 147.             | <i>Pseudecheneis nagalandensis</i> Shangningam & Kosygin, 2020  | –                      | Shangningam and Kosygin 2020                                                                                     | NE          |
| <b>Bagridae</b>  |                                                                 |                        |                                                                                                                  |             |
| 148.             | <i>Mystus armatus</i> (Day, 1865)                               | Kerala mystus          | Goswami <i>et al.</i> 2012                                                                                       | LC          |
| 149.             | <i>Mystus bleekeri</i> (Day, 1877)                              | Day's mystus           | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012                                                                | LC          |
| 150.             | <i>Mystus cavasius</i> (Hamilton, 1822)                         | Gangatic mystus        | Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012                                                          | LC          |
| 151.             | <i>Mystus tengara</i> (Hamilton, 1822)                          | Tengara catfish        | Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012                                                          | LC          |
| 152.             | <i>Mystus vittatus</i> (Bloch, 1794)                            | Striped dwarf catfish  | Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012                                                          | LC          |
| 153.             | <i>Mystus ngasep</i> Darshan, Vishwanath, Mahanta & Barat, 2011 | –                      | Baidya and Biswas 2018                                                                                           | NE          |
| 154.             | <i>Olyra burmanica</i> Day, 1872                                | Longtail catfish       | Goswami <i>et al.</i> 2012                                                                                       | DD          |
| 155.             | <i>Olyra horae</i> (Prashad & Mukerji, 1929)                    | Hora olyra             | Goswami <i>et al.</i> 2012                                                                                       | DD          |
| 156.             | <i>Olyra kemp</i> Chaudhuri, 1912                               | Kempi olyra            | Goswami <i>et al.</i> 2012; Imnatoshi and Ahmed 2013                                                             | LC          |
| 157.             | <i>Olyra longicaudata</i> McClelland, 1842                      | Himalayan olyra        | Goswami <i>et al.</i> 2012; Baidya and Biswas 2018; Kumzuk 2021                                                  | LC          |
| 158.             | <i>Sperata aor</i> (Hamilton, 1822)                             | Long-whiskered catfish | Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012                                                                | LC          |
| 159.             | <i>Sperata seenghala</i> (Sykes, 1839)                          | Giant river catfish    | Kamarkar and Das 2005; Goswami <i>et al.</i> , 2012; Odyuo and Nagesh 2012                                       | LC          |
| <b>Siluridae</b> |                                                                 |                        |                                                                                                                  |             |
| 160.             | <i>Pterocryptis berdmorei</i> (Blyth, 1860)                     | Burmese silurus        | Goswami <i>et al.</i> 2012; Kumzuk 2021                                                                          | LC          |
| 161.             | <i>Pterocryptis gangetica</i> Peters, 1861                      | Afghanistan silurus    | Kumzuk 2021                                                                                                      | DD          |

**TABLE 1** Continued.

| Serial                  | Family and scientific name                                 | Common name              | Sources                                                                                   | IUCN status |
|-------------------------|------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------|-------------|
| 162.                    | <i>Pterocryptis indicus</i> (Datta, Barman & ayaram, 1987) | Siluras cat-fish         | Goswami <i>et al.</i> 2012; Imnatoshi and Ahmed 2013                                      | DD          |
| 163.                    | <i>Pterocryptis afghana</i> (Günther, 1864)                | –                        | Goswami <i>et al.</i> 2012                                                                | LC          |
| 164.                    | <i>Ompok bimaculatus</i> (Bloch, 1794)                     | Butter catfish           | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012; Kumzuk 2021                            | NT          |
| 165.                    | <i>Ompok pabda</i> (Hamilton, 1822)                        | Pabdah cat-fish          | Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012                                   | NT          |
| 166.                    | <i>Ompok pabo</i> (Hamilton, 1822)                         | Pabo catfish             | Kumzuk 2021                                                                               | NT          |
| 167.                    | <i>Wallago attu</i> (Bloch & Schneider, 1801)              | Wallago                  | Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012                                   | VU          |
| <b>Erethistidae</b>     |                                                            |                          |                                                                                           |             |
| 168.                    | <i>Erethistes hara</i> (Hamilton, 1822)                    | Moth catfish             | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012                                         | LC          |
| 169.                    | <i>Erethistes horai</i> Misra, 1976                        | Elongated moth catfish   | Goswami <i>et al.</i> 2012                                                                | LC          |
| 170.                    | <i>Erethistes jerdoni</i> Day, 1870                        | Sylhet hara              | Goswami <i>et al.</i> 2012                                                                | LC          |
| 171.                    | <i>Erethistes pusillus</i> Müller & Troschel, 1849         | Gaint moth catfish       | Goswami <i>et al.</i> 2012                                                                | LC          |
| 172.                    | <i>Conta conta</i> (Hamilton, 1822)                        | Conta catfish            | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012                                         | DD          |
| <b>Schilbeidae</b>      |                                                            |                          |                                                                                           |             |
| 173.                    | <i>Ailia coila</i> (Hamilton, 1822)                        | Gangetic ailia           | Acharjee <i>et al.</i> 2012                                                               | NT          |
| 174.                    | <i>Clupisoma garua</i> (Hamilton, 1822)                    | Garua Bachcha            | Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012                                         | LC          |
| 175.                    | <i>Eutropiichthys vacha</i> (Hamilton, 1822)               | Batchwa vacha            | Goswami <i>et al.</i> 2012                                                                | LC          |
| 176.                    | <i>Eutropiichthys murius</i> (Hamilton, 1822)              | Murius vacha             | Goswami <i>et al.</i> 2012                                                                | LC          |
| <b>Clariidae</b>        |                                                            |                          |                                                                                           |             |
| 177.                    | <i>Clarias batrachus</i> (Linnaeus, 1758)                  | Walking cat-fish         | Odyuo and Nagesh 2012; Acharjee <i>et al.</i> 2012; Imnatoshi and Ahmed 2013; Kumzuk 2021 | LC          |
| 178.                    | <i>Clarias magur</i> (Hamilton, 1822)                      | Magur                    | Goswami <i>et al.</i> 2012                                                                | EN          |
| 179.                    | <i>Clarias gariepinus</i> (Burchell, 1822)                 | North African catfish    | Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012                                         | LC          |
| <b>Heteropneustidae</b> |                                                            |                          |                                                                                           |             |
| 180.                    | <i>Heteropneustes fossilis</i> (Bloch, 1794)               | Stinging cat-fish        | Goswami <i>et al.</i> 2012; Kumzuk 2021                                                   | LC          |
| <b>Amblycipitidae</b>   |                                                            |                          |                                                                                           |             |
| 181.                    | <i>Amblyceps apangi</i> Nath & Dey, 1989                   | Torrential cat fish      | Acharjee <i>et al.</i> 2012; Imnatoshi and Ahmed 2013; Humtsoe and Bordoloi 2014          | LC          |
| 182.                    | <i>Amblyceps arunachalensis</i> Nath & Dey, 1989           | –                        | Humtsoe and Bordoloi 2014                                                                 | EN          |
| 183.                    | <i>Amblyceps mangois</i> (Hamilton, 1822)                  | Indian tor-rents catfish | Hora and Mukerji 1935; Goswami <i>et al.</i> 2012                                         | LC          |
| <b>Channidae</b>        |                                                            |                          |                                                                                           |             |
| 184.                    | <i>Channa barca</i> (Hamilton, 1822)                       | Barca snake head         | Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012                                   | DD          |
| 185.                    | <i>Channa gachua</i> (Hamilton, 1822)                      | Dhok                     | Hora and Mukerji 1935; Humtsoe and Bordoloi 2014                                          | LC          |
| 186.                    | <i>Channa marulius</i> (Hamilton, 1822)                    | Giant snake-head         | Goswami <i>et al.</i> 2012                                                                | LC          |

**TABLE 1** Continued.

| Serial                 | Family and scientific name                            | Common name               | Sources                                                                                                                                                                 | IUCN status |
|------------------------|-------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 187.                   | <i>Channa punctatus</i> (Bloch, 1793)                 | Spotted snakehead         | Hora and Mukerji 1935; Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013; Humtsoe and Bordoloi 2014; Kumzuk 2021 | LC          |
| 188.                   | <i>Channa stewartii</i> (Playfair, 1867)              | Assamese Snakehead        | Goswami <i>et al.</i> 2012; Humtsoe and Bordoloi 2014; Baidya and Biswas 2018; Kumzuk 2021                                                                              | LC          |
| 189.                   | <i>Channa striata</i> (Bloch, 1793)                   | Snakehead murrel          | Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Kumzuk 2021                                                                             | LC          |
| 190.                   | <i>Channa orientalis</i> Bloch & Schneider, 1801      | Asiatic snakehead         | Goswami <i>et al.</i> 2012; Imnatoshi and Ahmed 2013; Kumzuk 2021                                                                                                       | VU          |
| <b>Mastacembelidae</b> |                                                       |                           |                                                                                                                                                                         |             |
| 191.                   | <i>Mastacembulus armatus</i> (Lacepède, 1800)         | Zig zag eel               | Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013; Baidya and Biswas 2018; Kumzuk 2021                           | LC          |
| 192.                   | <i>Macrogathus aral</i> (Bloch & Schneider, 1801)     | Spiny eel                 | Goswami <i>et al.</i> 2012                                                                                                                                              | LC          |
| 193.                   | <i>Macrogathus pancalus</i> Hamilton, 1822            | Striped spiny eel         | Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Kumzuk 2021                                                                                                          | LC          |
| <b>Ambassidae</b>      |                                                       |                           |                                                                                                                                                                         |             |
| 194.                   | <i>Chanda nama</i> Hamilton, 1822                     | Elongate glassy perchlet  | Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012                                                                                                                 | LC          |
| 195.                   | <i>Parambassis baculis</i> (Hamilton, 1822)           | Himalayan glassy perchlet | Goswami <i>et al.</i> 2012                                                                                                                                              | LC          |
| 196.                   | <i>Parambassis ranga</i> (Hamilton, 1822)             | Indian glassy fish        | Goswami <i>et al.</i> 2012                                                                                                                                              | LC          |
| <b>Osphronemidae</b>   |                                                       |                           |                                                                                                                                                                         |             |
| 197.                   | <i>Trichogaster chuna</i> (Hamilton, 1822)            | Honey gourami             | Goswami <i>et al.</i> 2012                                                                                                                                              | LC          |
| 198.                   | <i>Trichogaster fasciatus</i> Bloch & Schneider, 1801 | Banded gourami            | Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012                                                                                                                 | LC          |
| 199.                   | <i>Trichogaster lalius</i> (Hamilton, 1822)           | Dwarf gourami             | Goswami <i>et al.</i> 2012                                                                                                                                              | LC          |
| 200.                   | <i>Osphronemus goramy</i> Lacepède, 1801              | gourami                   | Goswami <i>et al.</i> 2012                                                                                                                                              | LC          |
| 201.                   | <i>Macropodus cupanus</i> (Cuvier, 1831)              | Spiketail paradise fish   | Goswami <i>et al.</i> 2012                                                                                                                                              | LC          |
| <b>Notopteridae</b>    |                                                       |                           |                                                                                                                                                                         |             |
| 202.                   | <i>Notopterus Notopterus</i> (Pallas, 1769)           | Bronze featherback        | Acharjee <i>et al.</i> 2012; Odyuo and Nagesh 2012                                                                                                                      | LC          |
| <b>Anguillidae</b>     |                                                       |                           |                                                                                                                                                                         |             |
| 203.                   | <i>Anguilla bengalensis</i> (Gray, 1831)              | Indian mottled eel        | Odyuo and Nagesh 2012; Kumzuk 2021                                                                                                                                      | NT          |
| <b>Belonidae</b>       |                                                       |                           |                                                                                                                                                                         |             |
| 204.                   | <i>Xenentodon cancila</i> (Hamilton, 1822)            | Freshwater gar fish       | Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013; Kumzuk 2021                                                                                | LC          |
| 205.                   | <i>Strongylura strongylura</i> (van Hasselt, 1823)    | Gar fish                  | Goswami <i>et al.</i> 2012                                                                                                                                              | LC          |

**TABLE 1** Continued.

| Serial               | Family and scientific name                    | Common name          | Sources                                                                                                                                      | IUCN status |
|----------------------|-----------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>Synbranchidae</b> |                                               |                      |                                                                                                                                              |             |
| 206.                 | <i>Monopterus albus</i> (Zuiew, 1793)         | Rice swamp eel       | Goswami <i>et al.</i> 2012; Imnatoshi and Ahmed 2013                                                                                         | LC          |
| 207.                 | <i>Monopterusuchia</i> (Hamilton, 1822)       | Cuchia               | Acharjee <i>et al.</i> , 2012; Goswami <i>et al.</i> , 2012                                                                                  | LC          |
| <b>Nandidae</b>      |                                               |                      |                                                                                                                                              |             |
| 208.                 | <i>Nandus nandus</i> (Hamilton, 1822)         | Beda                 | Goswami <i>et al.</i> 2012                                                                                                                   | LC          |
| <b>Anabantidae</b>   |                                               |                      |                                                                                                                                              |             |
| 209.                 | <i>Anabas testudineus</i> (Bloch, 1792)       | Climbing perch       | Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013; Kumzuk 2021                                                     | LC          |
| 210.                 | <i>Anabas cobojius</i> (Hamilton, 1822)       | Gangetic koi         | Goswami <i>et al.</i> 2012                                                                                                                   | DD          |
| <b>Badidae</b>       |                                               |                      |                                                                                                                                              |             |
| 211.                 | <i>Badis badis</i> (Hamilton, 1822)           | Dwarf chameleon fish | Hora and Mukerji 1935; Goswami <i>et al.</i> , 2012; Odyuo and Nagesh 2012; Imnatoshi and Ahmed 2013; Humtsoe and Bordoloi 2014; Kumzuk 2021 | LC          |
| <b>Cichlidae</b>     |                                               |                      |                                                                                                                                              |             |
| 212.                 | <i>Oreochromis mossambicus</i> (Peters, 1852) | Mozambique tilapia   | Odyuo and Nagesh 2012; Kumzuk 2021                                                                                                           | VU          |
| 213.                 | <i>Oreochromis niloticus</i> (Linnaeus, 1758) | Tilapia              | Goswami <i>et al.</i> 2012                                                                                                                   | LC          |
| <b>Gobiidae</b>      |                                               |                      |                                                                                                                                              |             |
| 214.                 | <i>Glossogobius giuris</i> (Hamilton, 1822)   | Tank goby            | Acharjee <i>et al.</i> 2012; Goswami <i>et al.</i> 2012; Odyuo and Nagesh 2012;                                                              | LC          |
| <b>Scianenidae</b>   |                                               |                      |                                                                                                                                              |             |
| 215.                 | <i>Johnius coitor</i> (Hamilton, 1822)        | Coitor croaker       | Goswami <i>et al.</i> 2012                                                                                                                   | LC          |
| <b>Mugilidae</b>     |                                               |                      |                                                                                                                                              |             |
| 216.                 | <i>Rhinomugil corsula</i> (Hamilton, 1822)    | Corsula mullet       | Goswami <i>et al.</i> 2012                                                                                                                   | LC          |

IUCN Red List categories: DD, Data Deficient; EN, Endangered; LC, Least Concern; NE, Not Evaluated; NT, Not Threatened; VU, Vulnerable.

#### 4 | CONCLUSIONS

This review presents the ichthyofaunal diversity of Nagaland state, India. As a measure of maintaining and conserving the ecosystem health and an understanding of the dynamics of fish biodiversity in response to various natural or man-made stressors, fish diversity must be regularly documented. Plans should be made for future research that focus on the major rivers of the state, preferably using a broader approach with respect to physico-chemical quality of water and fish diversity, in order to build a solid database for the species conservation.

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#### CONFLICT OF INTEREST

The author declares no conflict of interest.

#### AUTHORS' CONTRIBUTION

WU and PS did the secondary survey, collected and analyzed the data and prepared the draft manuscript. KJS conceptualized and designed the study, supervised the work and finalized the manuscript.

#### DATA AVAILABILITY STATEMENT

The data supporting the findings of this study are available within the article.

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