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# Ornamental Fishes Trade In Mumbai City, Maharashtra, India

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*Abstract:* An artificial pond in which alive aquatic creatures or plants are kept is called an aquarium. Nowadays, aquariums are been considered a part of interior design in houses. Presently, the aquarium is a flourishing industry that is now growing day by day. In the present investigation, a total of 99 species of aquarium fishes from 36 families are has been reported from the different aquarium shops in Mumbai city. The Cichlidae is a dominant family with 22 species respectively. In this study, there are 2 species listed as critically endangered (CR), 2 species listed as endangered (EN), 7 species are vulnerable (VU), 4 species are near threatened (NT) and 45 species are the least concern (LC) categories, according to IUCN red list. Data from 35 species was not evaluated (NE) and data was deficit of 4 species (DD). Out of 99 species, 98 species were exotic and only 1 was indigenous species. Additional data concerning various aspects (e.g., natural environment, native range, common name, and conservation status) was collected from the Life Catalogue, Fish base, the IUCN red list, and scientific literature. In the final conclusion, the aquarium fish area in Mumbai city is practically uncontrolled given the presence of threatened species and species capable of establishing nonindigenous populations, if they are released into the wild.

#### Index Terms - Ornamental fish, Aquarium trade, Exotic fishes, Threatened species, Mumbai.

#### I. INTRODUCTION

Ornamental fishes are called the jewels of the aquatic frame for their form, tiny size, and brilliant color (Banerjee, 2009). The wide collection of freshwater fishes for the aquarium trade has been considered an arguable issue (Ragwan et al.,2013). The facility of professional manpower, a nicely-established communique network, worldwide airports, and an export merchandising zone (EPZ) inside the country, offer large scope for the promotion of ornamental fish change and export. (H. R. Bhatkar et. al., 2012). Decorative fish exchange is a multibillion-dollar industry where more than 125 nations. 99 % of the global marketplace is restricted to hobbyists and below 1% is used for public aquaria and research institutes (Manab Kumar saha et al,2013). Neon tetras, angels, goldfish, danios, and discuss dominate the sector's decorative fish exchange. The industry is expected to grow by 8%, with the increasing demand for ornamental fishes supported by advances in filtration, aeration, and various smart accessories.

Indian ornamental fish area has tremendous opportunity for development, considering its widespread fish resources both the freshwater and marine fish species. (Karthick Raja et al.,2019). The export of aquarium ornamental fishes of India is worth only US\$0.2 million, which is not enough for the increasing demand for these attractive colored species in the global ornamental fish market. This may be attributed to the absence of involvement of technical people in ornamental fish farming [Rajan and N. Karpagam2004]. 400 species of the ornamental fishes belonging to 175 genera and 50 families are recorded in Indian waters (Satheesh, 2002). Even though about 99% of the freshwater aquarium fish are cultured in captivity (Tlusty, 2002). The extensive majority of components in marine species are depending on wild sources regularly regarding illegal/destructive fishing practices (e.g. cyanide fishing in Southeast Asia) and a number of them are unassailable and some are critically endangered species which might be covered aquarium fishes (Andrews, 1990). Other negative outcomes of the aquarium fish trade consist of the unfolding of new diseases and parasites, together with the Koi carp herpes virus (Haenen et al., 2004). On other hand, in number of places, aquarium shop owner practically unrestricted and given the presence of threatened species and species capable of establishing non-indigenous populations, if they released into the wild (Yadav Rupesh & et. al. 2020).

#### **II. DATA COLLECTION AND ANALYSIS:**

From October to December 2021, we conducted a survey to document ornamental species of fishes in the pet trade in Mumbai city. Totally 29 aquarium shops were visited for the data collection. The common names of all fishes were recorded at each location. A variety of fishes were readily available at the store. On special orders, they arrange those expensive fish. these dwelling jewels want now not always have bright colorings, every so often their precise characteristics together with body colour, morphology, and mode of taking meals (Chakravartty, 2012). Retail prices of fish were also recorded. Data collected for each species were classified based on conservation status, critical endangered (CR), near threatened (NT), least concern (LC), vulnerable (VU), and data deficient (DD) according to IUCN red list. In some cases, we observed that data on conservation status was not evaluated and data was not available.

#### **III. RESULT AND DISCUSSION:**

As we all know that aquarium trade is increasing, nowadays, which includes the import and export of fish. Presently, it is a growing and well-developing business. People are spending more and more to make their houses decorative, including the expenditure on aquariums to maintain the decor of the house. Aquarium fishing is the second-largest hobby after photography. In this, the minimum requirement of place and attention has to be given to the fish compared to other pets, this is also one of the reasons for establishing aquariums in houses. Setting up an aquarium is not so expensive, but can be installed at any place in the house.

Our survey recorded 99 fish species belonging to 20 orders, 36 families, and 85 genera (table no.1) in 29 aquarium stores. All species recorded were freshwater. Among all families, the family Cichlidae is dominant with 22 species. 26 families were representing only a single number of species of fish, while 3 families were representing 2 species, and the rest of the families were having 3 or more species.

According to the native ranges, out of 99 freshwater species, 98 were exotic and distributed worldwide in counties like Canada, United States, Mexico, Colombia, Indonesia, Malaysia, Thailand, Austria, France, Germany, Hungary, Italy, Russia, etc., Only 1 was reported as indigenous. According to their conservation status on IUCN red list, 2 species are under the category of endangered (EN) namely Scleropages formosus and Bedotia geayi, 7 species are vulnerable (VU) namely Balantiocheilos melanopterus, Puntius titteya, Paratilapia pollen, Betta splendens, Carcharodon carcharias, Lutjanus campechanus, and Dasyatis Diptera. 2 species were critically endangered (CR) namely Epalzerohynchos bicolor and Ambystoma mexicanum and 4 species are near threatened (NT) namely Altolamprologus calvus, Trichopodus leery, Potamotrygon motoro and Neocaridina davidi.

Our data revealed that 15 species are listed in the EN, VU, CR, and NT categories of the IUCN red list. More surprisingly, for the 40 remaining species recorded in the present survey, either the related data were missing to access their conservation status or they had not been assessed at all. Some of the species reported as the most popular ornamental fish variety in aquarium shops e.g., Fighting fish, Pearl gourami, Angelfish, Rainbowfish, Molly, Arowana, Goldfish, etc. due to their small body size, impressive color pattern, and accessible retail price (Except Arowana). Based on the data available for 162 fishes of 99 species, the price of 97 fish was between 30 to 1000 per pair. However, there were 65 fish with a price between 1000 to 250000.

It was also seen that; the size of fish also affects their cost. As the length of fish increases, the cost can increase up to twenty times more. The cost of baby fish is low as it has small in size while big fishes have a higher price as seen in table no.2. The Colour and texture of fish are a second reason for the cost fluctuation in aquarium fish. The import of fish also affects the cost.

Based on the current documented biodiversity of aquarium fishes in pet shops around Mumbai. We analyse that exotic species which are being imported into the country breed within each other causing a treat of extinction to the indigenous species. Precautionary measures and awareness among the general public should be made for the conservation of the indigenous species.

#### **IV. CONCLUSION:**

The present study suggests that aquarium shops in Mumbai has 98% of fishes are exotic, when released into the wild will reproduce, causing a threat to indigenous species which can lead to extension in future. In other hand, the aquarium shops in Mumbai, selling number of exotics threaten species of the fishes which is also one of threats to the aquarium fishes.

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Sr. No.	Order	Family	Genus	Species	Common Name	IUCN Status	Exotic/ Indigenous
1			<i>Car<mark>assius</mark></i>	auratus	Gold fish	LC	Exotic
2			Cyp <mark>rinus</mark>	rubrofuscus	Big koi	LC	Exotic
3			Danio	rerio	Zebra danio	LC	Exotic
1			Epalzeorhynchos	bicolor	Red-tailed black shark	CR	Exotic
5		Cyprinidae	Epuizeornynchos	frenatum	Rainbow shark	LC	Exotic
5	Cypriniformes	Cyprinidae	Balantiocheilos	melanopterus	Bala shark	VU	Exotic
7	Cyprimornes		Puntigrus	tetrazona	Tiger b <mark>arb</mark>	LC	Exotic
3		Catostomidae	Haludaria	fasciata	Melon barb	LC	Exotic
)	-		<b>C</b> rossocheilus	oblongus	Siamese algae eater	LC	Exotic
0			<b>P</b> untius	titteya	Cherry barb	VU	Exotic
1			<i>Catostomus</i>	Catostomus commersonii		LC	Exotic
2		Gyrinocheilidae	<b>G</b> yrinocheilus	aymonieri	Golden algae eater	LC	Exotic
3				sphenops	Common molly	LC	Exotic
4	1		Poecilia	reticulata	Guppy	LC	Exotic
5	Cyprinodontiformes	Poeciliidae		wingei	Endler's livebearer	NE	Exotic
6	1		Xiphophorus	maculatus	Sourthen platyfish	DD	Exotic
7	1		лірнорногиз	hellerii	Green sword tail	LC	Exotic

### Table no. 1 - Ornamental fish species reported in Mumbai aquarium stores.

18			Salminus	brasiliensis	Golden dorado	NE	Exotic
19	-		Paracheirodon	innesi	Neon tetra	NE	Exotic
20	-		1 drachetroaon	axelrodi	Cardinal tetra	NE	Exotic
21	-			sweglesi	Red phantom tetra	LC	Exotic
22			<i>Hyphessobrycon</i>	flammeus	Flame tetra	NE	Exotic
23	-			amandae	Ember tetra	NE	Exotic
24	-	Characidae	Metynnis	argenteus	Single band dollar	LC	Exotic
25		Characidae	Merynnis	lippincottianus	Spotted dollar	NE	Exotic
26	-		Myleus	schomburgkii	Black berred myleus	NE	Exotic
27	-		Aph <mark>yocharax</mark>	anisitsi	Bloodfin tetra	NE	Exotic
28	Characiformes		Thayeria	boehlkei	Blackline penguinfish	NE	Exotic
29			<i>Gymnocorymbus</i>	ternetzi	Black tetra	NE	Exotic
30	-		<b>P</b> ristella	maxillaris	X-ray tetra	LC	Exotic
31	-		<b>P</b> iaractus	brachypom <mark>us</mark>	Pirapitinga	NE	Exotic
32	-	Serrasalmidae	Serrasalmus	rhombeus	Red eye piranha	NE	Exotic
33	-	ChalCRidae	<b>C</b> halceus	macrolepidotus	Pinktail chalceus	NE	Exotic
34		Cynodontidae	<i>Hydrolycus</i>	neblinae	Payara	NE	Exotic
35		Altestidae	Phenacogrammus	interruptus	Congo tetra	LC	Exotic
36	1	1 inconduc	Hydrocynus	forskahlii	African tigerfish	LC	Exotic
37		Pimelodidae	Brachyplatystoma	rousseauxii	Dorado catfish	LC	Exotic
38	]	Hepsetidae	Hepsetus	Odoe	African pike	LC	Exotic

39			Astronotus	ocellatus	Oscar	NE	Exotic
40			Pterophyllum	scalare	Freshwater angelfish	NE	Exotic
41			Cyphotilapia	frontosa	Zaire blue frontosa	LC	Exotic
42			Vieja	melanurus	Red head cichlid	DD	Exotic
43			Vieju	argentea	Silver cichlid	LC	Exotic
44			Alto <mark>lamprologus</mark>	calvus	Black calvus	NT	Exotic
45			Cyp <mark>richromins</mark>	leptosoma	Sardine Cichlid	LC	Exotic
46			Reg <mark>anochro</mark> mis	calliurus	Lamprolagus	LC	Exotic
47			Cichla	ocellaris	Peacock bass	NE	Exotic
48			Paratilapia	polleni	Polleni cichlid	VU	Exotic
49	Cichliformes	Cichlidae	<i>Herichthys</i>	carpintis	Escondido	LC	Exotic
50			<mark>G</mark> uianacara	ocellaris	Guinicara oweti	NE	Exotic
51			Heros	efasciatus	Rotkeill severum	NE	Exotic
52			Cichlasoma	sp.	Flower horn	LC	Exotic
53			<b>Thorichthys</b>	meeki	Firemouth	LC	Exotic
54			<i>Hemichromis</i>	fasciatus	Banded jewelfish	LC	Exotic
55			Krobia	xinguensis	Krobia	NE	Exotic
56			Crenicichla	lugubris	Red atabapo pike	NE	Exotic
57			Amatitlania	nigrofasciata	Zebra convict cichlid	DD	Exotic
58			Mikrogeophagus	ramirezi	Ram cichlid	NE	Exotic
59			Andinocara	pulcher	Blue Acara	LC	Exotic

60			Scianochromis	Ahli	Electric blue base	LC	Exotic
61			Caridina	multidentata	Amano shrimp	LC	Exotic
62	Decapoda	Atyidae	Cariaina	serrata	Tiger shrimp	NE	Exotic
63			Neocaridina	davidi	Red/cherry shrimp	NT	Exotic
64			Tric <mark>ho</mark> gaster	trichopterus	Three spot gourami	LC	Exotic
65		Osphronemidae	Tric <mark>hopodus</mark>	Leerii	Pearl gourami	NT	Exotic
66	Anabantiformes	Osphionennuae	Osphronemus	goramy	Giant Gourami	LC	Exotic
67			Betta	splendens	White betta	VU	Exotic
68	-	Helostomatidae	Helostoma	temminckii	Kissing gourami	LC	Exotic
69	Lamniformes	Lamnidae	Car <mark>charodo</mark> n	carcharias	Great white shark	VU	Exotic
70			Otocinclus	vestitus	Dwarf sucker	NE	Exotic
71	-	Loricariidae	<i>Hypostomus</i>	plecostom <mark>us</mark>	Suckermouth catfish	NE	Exotic
72		Loncandae	Panaque	nigrolinea <mark>tus</mark>	L-191 Pleco	NE	Exotic
73	Siluriformes		<b>H</b> emiancistrus	guahiboru <mark>m</mark>	L-106 Pleco	NE	Exotic
74		Mochokidae	Synodontis	petricola	Cuckoo catfish	LC	Exotic
75		Doradidae	oxydoras	Niger	Ripsaw catfish	NE	Exotic
76	-	Pimelodidae	Phrachtocephalus	hemioliopterus	Redtail catfish	NE	Exotic
77		Pimelodidae		Sturio	Sturgeon catfish	NE	Exotic
78	Spariformes	Datnioididae	Datinoides	microlepis	Indonesian tiger perch	LC	Exotic
79	Perciformes	Monodactylidae	Monodactylus	argenteus	Mono angel	LC	Indigenous
80		Lutjanidae	Lujanus	campechanus	Northern red snapper	VU	Exotic

81			scleropages	formosus	Asian arowana	EN	Exotic
82	Osteoglossioforms	Osteoglossidae	osteoglossum	bicirrhosum	Silver arowana	NE	Exotic
83			Arapima	gigas	Arapaima	DD	Exotic
84		Pantodontidae	Pantodon	buchholzi	African butterfly fish	LC	Exotic
85	Dipnoi	Lepidosirenidae	Protopterus	aethiopicus	Marble lungfish	LC	Exotic
86		Lepidosireindae	Trolopierus	dolloi	Slender lungfish	LC	Exotic
87	Lepisosteiformes	Lepisosteidae	Lepi <mark>sostetus</mark>	platyrhincus	Marble florida gar	LC	Exotic
88	Urodela	Ambystomtidae	Ambystoma	mexicanum	Axolotl	CR	Exotic
89	Anura	Pipidae	Xen <mark>opus</mark>	laevis	African clawed frog	LC	Exotic
90	Gymnotiformes	Hypopomidae	Hyp <mark>opygus</mark>	neblinae	Marble knife fish	NE	Exotic
91	Gynniothornies	Apteronotidae	Apteronotus	albifrons	Black g <mark>host</mark>	NE	Exotic
92	Myliobatiformes	Patamotrygonidae	Potamotrygon	motoro	Ocellate river stingray	NT	Exotic
93		Dasyatidae	DasyatisCR	dipterura	Black diamond stingray	VU	Exotic
94				palmas	Marbled bichir	LC	Exotic
95	Polypteriformes	Polypteridae	polypterus	endlicherii	Saddled bichir	LC	Exotic
96	l'orypternormes	Torypteridae	potypierus	senegalus	Gray bichir	LC	Exotic
97				lapradei	Nile bichir	LC	Exotic
98	Arcida	Arcidae	Tegillarca	granosa	Red sushi (red clam)	NE	Exotic
99	Atheriniformes	Melanotaeniidae	Bedotia	geayi	Madagascar Rainbow	EN	Exotic

		1		<u>4</u>		r r			
Sr. No.	Name of the fish	Price	Sr. No.	Name of the fish	Price		Sr. No.	Name of the fish	Price
1	Oranda	200	28	Red female guppy	40		55	Albino congo tetra	400
2	Red carp oranda	190	29	Full black guppy	100		56	African tiger fish (4")	10000
3	Gold fish	120	30	Tiger endler guppy	120		57	Platinum dorado catfish	18000
4	Small goldfish	40	31	Platy	40		58	African pike (5"-6")	4000
5	Ryukin gold fish	2500	32	Hi-fin platy	60		59	Tiger osar (3"+)	350
6	Calico ryukin	2500	33	Santa claus sword tail	100		60	Red chilli Oscar (3")	550
7	Red and white ryukin	2700	34	Pineapple sword tail	60		61	Copper Oscar (3"+)	400
8	Black moor	180	35	Golden dorado(5"-6")	10,000		62	Albino Oscar (3"+)	350
9	Big koi	350	36	Neon tetra	50		63	Scar angel	60
10	Milky koi	100	37	Cardinal tetra	100		64	Marble angel	60
11	Koi	150	38	Red phantom tetra	80		65	Red eye angel	400
12	Small koi	80	39	Flame tetra	60		66	BSP angel	750
13	Tricolor koi (6")	1200	40	Ember tetra	80		67	Mono angel (medium)	150
14	Zebra danio	370	41	Single band dollar (3"+)	2800		68	Mono angel (small)	80
15	Yellow zebra	40	42	Single band dollar (2")	2500		69	Zaire blue frontosa (5")	15000
16	Red tailed black shark	100	43	Spotted dollar (3"+)	2600	_	70	Blackwidow frontosa (2")	3500
17	Rainbow shark	150	44	Five band dollar (3"+)	2900		71	Cichlid	250
18	Tiger barb	50	45	Black berry dollar (2")	4500		72	White cichlid (2")	550
19	Melon barb	60	46	Bloodfin tetra	50		73	Black calvus (3"-4")	6000
20	Siamese algae eater	80	47	Blackline penguinfish	50		74	Redhead cichlid (6"-8")	3000
21	Cherry barb	50	<b>48</b>	Yellow widow	100		75	Sardine cichlid (3")	6000
22	White sucker	80	49	Green widow	100		76	Golden calvus (3"-4")	6000
23	Golden algae eater	80	50	Purple widow	100		77	Lamprolagus (4")	6000
24	Common Molly	40	51	Red widow	200		<b>78</b>	Peacock bass (8"-10")	15000
25	Molly	80	52	White piranha	200		<b>79</b>	Polleni cichlid (5"-6")	2500
26	Guppy	450	53	Pinktail chalceus	150		80	Escondido (3")	1000
27	Full red guppy	180	54	Payara (67")	8000		81	Guinicara oweti (2"+)	100

 Table No. 2: Price of the ornamental fishes in in Mumbai aquarium stores.

Sr. No.	Name of the fish	Price		Sr. No.	Name of the fish	Price		Sr. No.	Name of the fish	Price
82	Rotkeill severum	450	1	.09	Big tiger shark	100		136	Arapaima (6"-7")	12000
83	Flower horn	6000	1	10	Silver shark	120		137	African butterfly fish(4")	1200
84	Firemouth	100	1	.11	Big silver shark	1300		138	Marble lungfish(13"-14")	35000
85	Krobia (2.5")	2000	1	.12	Suckermouth catfish	60		139	Slender lungfish(8"-9")	2500
86	Red atabapo pike (6"-7")	15000	1	.13	Dwarf sucker	350		140	Marble florida gar (10")	250000
87	Zebra convict cichlid	60	1	.14	L-191 pleco	6000		141	Axolotl (5"-6")	4500
88	Ram cichlid	150	1	15	L-106 pleco	6000		142	Albino frog (2"+)	500
<b>89</b>	Neon/blue acara	450	1	16	Cuckoo catfish (2")	400		143	Marble knife fish(6"-8")	3000
90	Electric bluebase (8"-10")	80000	1	.17	Ripsaw catfish (5"-6")	7000		144	Black ghost (3"+)	350
91	Amano shrimp	240	1	.18	Red tail catfish (2")	200		145	Black ghost (4"-5")	400
92	Red/cherry shrimp	80	1	.19	Red tail catfish (2.5")	300		146	Black ghost (8"-12")	3200
93	Yellow sakura shrimp	100	1	20	Sturgeon catfish (5")	4000		147	Blackdiamond stingray(7")	55000
94	Orange sakura shrimp	120	12	21	Indo-tiger perch (7"-8")	12000		148	Motoro stingray(4"-5")	15000
95	Golden line shrimp	120	12	22	RTG arowana (6"-7")	22000		149	Hybrid stingray(5"-6")	30000
96	Dream blue	120	12	23	Super high back (6"-7")	28000		150	Bichir turkana (20"-22")	60000
97	Aura blue shrimp	120	12	.24	Super high back (18")	110000		151	<b>P</b> arinari (10"-12")	5000
<b>98</b>	Snow white shrimp	120	12	25	High back (6"-7")	22000		152	Gray bichir (10"-12")	5000
<b>99</b>	Black choco shrimp	120	12	26	Highback arowana (6"-7")	35000		153	Armoured bichir (3"-4")	1200
100	Gourami	50	12	27	Highback arowana (18")	100000	-	154	Saddled bichir (3"-4")	1200
101	Pearl gourami	100	1	28	Cross back (8"-10")	80000	/	155	Nile bichir (16"-18")	35000
102	Copper gourami	60	12	29	24K arowana (8"-10")	65000		156	Red sushi	120
103	Black eye giant (3")	300	1.	.30	24K arowana (6"-7")	55000		157	Orange sushi	120
104	Red eye giant (4")	600	1.	31	Super red chilli (8"-10")	190000	3	158	Madagascar rainbow	300
105	Kissing gourami (medium)	100	1.	32	Silver arowana (3")	1000		150	Albino pacu (2.5")	350
106	Kissing gourami (small)	60	1.	.33	Silver arowana (5"-6")	1500		160	Albino pacu (3")	450
107	Great white shark	60	1.	.34	Silver arowana (6"-7")	2000		161	Albino pacu (4"-5")	600
108	Tiger shark	50	1.	.35	Silver arowana (7"-8")	4000		162	Redjewel cichlidballoon (5")	12000