

EDIBLE FISHES OF TAMILNADU

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Characters	Catla Catla	Labeo rohita	Cirrhina mrigala	Cat fishes	Murrels (Viral Meen)		Tilapia Oreochromis mossambicus
					Channa marulius	Channa striatus	
Other name	Catla	Rohu	Mrigal	Keluthi	Giant snake head	Striped snake head	Jilabi kendai
Order	-	-	-	siluriformes	Channiformes	Channiformes	Perciformes
Body	Deep body	-	Linear body	without scales	Elongated and cylindrical	stripes	-
Head	Prominent	Small and pointed	small	-	Depressed	-	-
Mouth	Large upturned	Terminal small	sub terminal	Non-protractile with teeth	Large and Protractile	-	-
Lips	Non-fringed	Fringed lower lips	Thin – non fringed	Upper and lower jaws -2 pairs of barbels	-	-	-
Dorsal fin	14-16 branched rays	12-13 branched rays	12-13 branched rays	-	Dorsal and anal fin – long and with – out spines	-	anterior spinous and posterior soft dorsal fin
Scales	-	Reddish scales	Bright silvery body with golden tinge	-	-	-	-
Feeding	Zooplankton and phyto plankton surface feeder	Phyto plankton, debris young (zoo plankton) column feeder	Decaying organic and vegetable debris, zoo plankton Bottom feeder	Predatory and fish fry cannibalistic	Tilapia young one	-	-
Max. Size	1.8m (45kg)	1m	0.9m	-	1.2 m	90cm	-
1 year growth	35-45cm (1.5-2kg)	35-40cm (900g)	30cm (700g)	-	-	-	-
Special Feature	Fast growing species	Tastiest fish	-	Air breathing, teeth	Air breathing suitable for culture in wells	air breathing	Exotic fish (East coast of Africa -1952), mature in 2 months and 8 times breed Eggs guarded in female mouth.

INDIAN CATTLE BREEDS

Characters	Sindhi (Red Sindhi, Red Karachi)	Gir (Kathiyawari, Surti)	Ongole (Nellore)	Kangayam(Kanganad, Kongu)	Hallikar	Jersey
Origin	Karachi and Hyderabad	Pure: Gir Forest of South Kathiyawar. Impure: Baroda and some parts of Maharashtra	Andhra Pradesh, Guntur, Narasarpet, Venukonda, Kandukur taluks of Nellore	Kovai Dt, dharmapuram Tk, Kandgeyam. Udumalpet, Palladam, Pollachi and in other parts of South India.	South Indian states, Karnataka- Hassan and Tumkur	European Breeds 90 years back introduced in India. Jersey Island
Size	Medium Size, compact Body	Body well built with clear cut lines	Larger form: male:700Kg, Female: 400Kg	Moderate size	Medium size	
Face	Intelligent facial expression	Pure breed majestic appearance		Head is short with prominent forehead	Head is long, bulging forehead and a prominent furrow in the middle.	
Colour	Deep dark Red	Red, Black and red, red and white or white with red spots	White with grey marking	White or grey with black markings	Dark grey. Some times almost black	White to Dark grey and it broken patches
Horn	Emerging laterally and ending in blunt points		Stumpy and grow outwards and inwards	Strong and are curved upwards and outwards.	Long and emerge out, slant backwards in a graceful sweep and then curve upwards to terminate sharp point.	
Hump	present		Well developed and erect	Moderate sized	Moderately developed	
Udder	Udder is large with medium sized teats	Udder is large with matching teats		Udder is medium with small teats	Udder is medium with small teats	Good udder with large teats
Bull	Steady workers, suited for road and field work	Heavy, powerful and good for draught	Powerful and suitable for cart and road work but are not past	Excellent type for hard working	Draught, heavy ploughing, transport and other field works	Vicious than other breed
Special	<ul style="list-style-type: none"> • docile and quite. • High degree resistant to heat and ticks 	<ul style="list-style-type: none"> • ears long like a leaf. • Tail is long and whip like • Legs are long and well built 		<ul style="list-style-type: none"> • strong limbs • Fine skin • Fine tail 	* Small ears.	<ul style="list-style-type: none"> • 5% fat • milk is yellow because high carotene content. • nervous and Sensitive
Milk Yields	5,443 Kg	3,715 Kg	1700 Kg to 3500Kg	666Kg	Poor milkers.	4,950 Kg

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EXOTIC POULTRY BREEDS

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Characters	American breeds (Plymouth Rock)	Asiatic breeds	English breeds (Sussex, Orpington, Australorp and Corinsh)	Mediterranean breeds (Leghorn and Ancone –Italy, Minorca - Spain)
		Brahma- Brahmaputra valley Cochin and Langshan -China		
Origin and Types	Oldest and popular breeds of America	Asian continent	England	European countries, Mediterranean sea
Body	Long Deep body	Large Body with heavy bones		Small, Compact body
Colour	Plumage – grayish white Female looks darker in colour than males	Light brahma – grey to white and hackle feathers are black. Dark Brahma :- light black or steel grey and greenish hackle	Plumage-White	Plumage: White, Brown or Black
Shanks	Females – Black spots	Feathered shanks		
Comb	Single combed	Pea comb		Single comb and wattles
Ear lobes		Red lobes and yellow skin	Pink colour	
Eggs	Good sized eggs	Egg shells are light to dark brown	Brown shelled eggs	Lay eggs at the age of 5 or 6 months
Special	Commonly used in broiler production	Egg and meat purpose		<ul style="list-style-type: none"> • Most popular and commercial breed in India. • Leghorns are adopted to most of the climates, thriving well in dry areas.
Weight	Cock-4.3Kg. Hen-3.4 Kg. Cockeral -3.6Kg. Pullet -2.7 Kg.	Light brahma :-Cock-5.4Kg. Hen- 4.3 Kg. Cockeral -4.5Kg. Pullet -3.6 Kg. Dark brahma :-Cock-4.9Kg. Hen- 3.9 Kg. Cockeral -4..0Kg. Pullet -3.1 Kg.		Cock-2.7Kg. Hen-2.0 Kg. Cockeral -2.3Kg. Pullet -1.8 Kg.