INDIAN CATTLE & BUFFALO BREEDS
There are total 27 documented Indian breeds of cattles in different regions of India.
BUFFALO-
MURRAH, MEHSANA, SURTI, JAFTABADI, NILIRAVI, PANDHARPURI

EXOTIC DAIRY BREEDS - HOLSTEIN FRISEAN, JERSEY, BROWN SWISS

DEVELOPED INDIAN DAIRY BREEDS - KARAN SWISS, KARAN FRIESS,
BREEDS OF CATTLE
INDIAN DAIRY BREED

SAHIWAL -
ORIGIN - Pakistan (Punjab)
CHARACTER - Red colour, loose skin on body, Horns are short & round.
MILK PRODUCTION 1100 to 2000 Litres & Fat 5.6 %

AVAILABILITY - Punjab – Border area with Pakistan.
INDIAN DAIRY BREED

RED SINDHI

ORIGIN – Sindh province in Pakistan

CHARACTER - Dwarf, medium sized, docile in nature, red colour, short horn.

MILK PRODUCTION - 1400 to 1500 litre & fat 4.5 to 4.8

AVAILABILITY - Hyderabad, Punjab & Sindh Province in Pakistan
INDIAN DAIRY BREED

GIR
ORIGIN –
Gir Forest in Junagarh in Gujrat state
CHARACTERISTICS – Red, White, Black spots, Bulged forehead, Black eyes, Long head, Round horns, Long-round ears.
MILK YIELD - 1700 to 1800 litre & Fat % 4.9 to 5.5
AVAILABILITY –
Gujrat, Kathewad, Baroda & north Maharashtra
INDIAN DAIRY BREED

THARPARKAR

ORIGIN-
Sindh province in Pakistan

CHARACTER
Medium Broad forehead, White-Grey colour

MILK YIELD
1400 litres with 5% fat

AVAILABILITY-
Thar desert, Katch, Marwad
DUAL PURPOSE BREEDS

HARIYANA
ORIGIN –
East Punjab Area in India
CHARACTER–
White-Grey colour, Tall, Bulged forehead, Round horns, Long forehead, Fast runner.
MILK YIELD-
Average 1200 to 1400 Litre & Fat - 5%
AVAILABLE –
Rohtak, Gurgaon, Karnal, Delhi
ONGOLE

ORIGIN-
Ongole area of Andhrapredes, Nellore & Guntur

CHARACTERS:
White colour, Fleshy, Bulged forehead, Short horns.

MILK YIELD-
1255 to 2268 litres per lactation with 5% fat.

AVAILABILITY
- Nellore area of AP, Brazil
DUAL PURPOSE BREEDS

DEONI

ORIGIN-
Hyderabad, Western Andhrapradesh.

CHARACTER-
Black forehead, White, Red body, White body with black spots, long ears, forehead looks like Gir animals.

MILK PRODUCTION-
900 to 1000 litres & Fat 5.5 %.

AVAILABILITY
Deoni, Balaghat, Ahmedpur, Osmanabad
**DUAL PURPOSE BREEDS**

**KANKREJ**

**ORIGIN:**
Kutch & Sindh & Ahmedabad districts in Pakistan

**CHARACTER:**
White-grey colour, Royal look, Powerful, Flat forehead, Long head, Straight legs & Heafty in all Indian cattles.

**MILK PRODUCTION:**
1300 litres with 5% fat.

**AVAILABILITY:**
North Gujrat, Desert of Kutch, Saurashtra, Kankrej district & Ahmedabad.
Imported in 1960 to North & South America for meat purpose.
DROUGHT PURPOSE BREEDS

**DANGI**

**ORIGIN**-
Ahemdnagar, Nasik & part of Gujrat

**CHARACTER**-
Red, White or black colour, medium size, Short forehead, Bulged forehead, Oily skin, Short & thick horns, small ears.

**AVAILABILITY**-
Dang area (Gujrat), Akole and Igatpuri area in maharashtra. Used for Paddy cultivation practices.
DROUGHT PURPOSE BREEDS

KRISHNAKATHI

ORIGIN-
Krishna valley in Maharashtra and Malprabha-Ghatprabha valley in Karnataka.

CHARACTER-
White colour, Medium size, Small eyes, flat forehead, short horns, strong neck.

MILK YIELD- Less.

AVAILABILITY-
Krishna Valley, Miraj, Dharwad, Belgaon.
DROUGHT PURPOSE BREEDS

AMRITMAHAL

ORIGIN- Karnataka

CHARACTER-
Long Body, Bulged Forehead & Depressed in middle part, Straight horns, Grey colour, Broad chest.

USE–
Racing & Farm work

AVAILABILITY-
Maisore in Karnataka.
DROUGHT PURPOSE BREEDS

KANGAYAM-

ORIGIN-
Kangayam & Dharmapuram block of Coimbatore district in Tamilnadu.

CHARACTER-
Medium size, Straight back, Dark grey colour, Cows are white with having black spots on legs.

USE- Drought purpose

AVAILABILITY-
Udamalpeth, Palldam, Polachi & Coimbatore in Tamilnadu.
DROUGHT PURPOSE BREEDS

KHILLARI

ORIGIN:- Satara & Solapur district & area towards mumbai from satpura range in Maharashtra.

CHARACTER- White, Grey red colour, Medium size, Compact body, Sharp horns, alert, and pretty look.

AVAILABILITY

Atpadi khillar- sangli area, Mhaswad Khillar- Satara & Solapur area, Tapi Khillar- Southern Khandesh, Nakali Khillar- Remaining part of western Maharashtra.

USE- Racing & Drought purpose
DROUGHT PURPOSE BREEDS

RED KANDHARI

ORIGIN- Kandhar block in Nanded & Boredr area to AP

CHARACTER- Medium body, Compact, Straight back, Red coloured, Shiny coat, Black circles around eye, High reproductive efficiency.

USE- Drought purpose

AVAILABILITY- Kandhar, Hingoli, Biloli, & Ahmedpur block in Marathwada region. (M.S.)
EXOTIC DAIRY CATTLE BREEDS

HOLSTEIN FRISIAN (H.F.)

**ORIGIN:** Holland (Netherlands)

**CHARACTER:** Black & White colour, High feeding capacity, Big udder, Round back, Long forehead. These animals were used for crossbreeding in Indian cattles, Can sustain well in 30-35 degree temperature with good management & fodder availability.

**MILK PRODUCTION:**
Average 7200-9000 litres /lactation (pure breeds) & 4000 litres in Indian situation in 305 days with 3.4% fat.
**EXOTIC DAIRY CATTLE BREEDS**

**JERSEY**

**ORIGIN**- Jersey Iceland in England.

**CHARACTER**- Yellowish red colour, with white spots, Straight back, Good feeding capacity and Stronger than HF breed. Thrive well in hot weather but require good management & fooder availability.

**MILK PRODUCTION**- Average 5000 to 8000 kgs (Pure breeds) 3500-4000 litres in Indian condition with 5.5% fat.
EXOTIC DAIRY CATTLE BREEDS

BROWN SWISS

ORIGIN - Switzerland

CHARACTER -
Big forehead, Loose skin, Docile in nature & easy to manage. Can thrive well in hot areas.

MILK PRODUCTION -
5250 litres in 305 days with 4% fat.

USE - Milk & Drought purpose.
KARAN SWISS

ORIGIN- National dairy Development board, Karnal, Haryana. Cross between Sahiwal X Brown swiss

CHARACTER- Faint to dark brown colour, Small ears, medium size, Bulls used for drought purpose.

Milk Yield- 3355 litres with 3.5 % fat in 305 days. Now Bangladesh is using this breed for milk production.
INDIAN CROSSBRED DAIRY BREEDS

**KARAN FRIES**

**ORIGIN** - National dairy Development board, Karnal, Haryana. Cross between Tharparkar X Holstein frisean

**CHARACTER** - Dark colour with black spots, White spot on forehead, Docile in nature.

**Milk yield** - 3700 litres with 3.8 to 4.0 % fat.
INDIA IS PRODUCING 100.1 MT OF MILK ANNUALLY & NUMBER ONE MILK PRODUCER IN WORLD & BUFFALO CONTRIBUTES IT’S SHARE MORE THAN 50 % OF IT’S MILK PRODUCTION.
MURRRAH
Worlds best buffalo breed with having good milk production.

ORIGIN- Valley of Yamuna in Haryana state–Rohtak, Delhi, Meerut in UP.

CHARACTER- Long neck, Horns round & turned, Forehead round and forwarded, Long ears, Black colour, Tail long & switch of tails is black.

MILK YIELD- 2000 to 4500 liters in 300 days with 7-8 % fat.
MEHSANA

ORIGIN- Mehasana district in Gujrat. Cross cross between Surti & murrah buffalo.

CHARACTER- Length comparatively shorter than Murrah buffalo, Height also less than Murrah, Horns turned downward then outward & goes upward direction. Ears are shorter than Murrah, Short forehead, Black coloured, Short tail with black switch.

MILK YIELD- Average 2000 to 4000 liters with 7-8%
SURTI

ORIGIN- Vally of Mahi & Sabarmati river, Surat district in Gujrat
CHARACTER- The Surti buffaloes are of medium size and docile temperament. The breed has got a fairly broad and long head with a convex shape at the top in between horns. Horns are sickle-shaped and flat which grow in a downward & backward direction and then upwards at the tip forming a hook. The skin color is black or brown. Surti breed has got an unique straight back. Good specimen have two white collars.

BUFFALO BREEDS

SURTI

Average milk production:-
i) Ist Lactation:- 1500-1600 Kg
ii) Other than Ist Lactation:
   - 1900-2000 Kg
Fat:- 7 to 7.5% SNF:- 9 to 9.15%
Age at Ist calving:- 45 to 47 months
Calving interval:- 400 to 425 days
Body weight at maturity:- 350 to 375 Kg
Breeding period:- Seasonal (Sept. to April)
JAFRABADI (JAFRI) BUFFALO -

**ORIGIN** - Kathiwad, Saurashtra, Kutchh area in Gujrat

**CHARACTER** - Heafty breed, Big forehead, Round horns-turned below then upwards form head & then round. Small eyes, Ears are long, Legs are strong and tail is longer.

**MILK YIELD** - Average 2200 litres per lactation. Age at first calving is 50 to 55 months. Fat is 7-8%.
BUFFALO BREEDS

NILLI RAVI

ORIGIN - Punjab, Amritsar, Pakistan - Lahore and Ravi river area.

CHARACTER - White colour in Eye, Broad forehead, White mark from forehead to nostrils, Switch of tail is white, White bands on legs, Long body and less height than Murrah buffalos. (Panch Kalyani).

MILK PRODUCTION: - 3300 to 4500 litres per lactation.
BHADAWARI

ORIGIN: Breed is found in the Gwalior & Bhind districts in M.P.

CHARACTER:- Animal of this breed are medium sized and of wedge shape. Small head, tail is long, thin and flexible with Black and White or pure White marking reaching up to fetlock. Legs are short & stout. The body is usually light, copper colored which is peculiar. The ears are scanty.

MILK PRODUCTION: 780 Liter in 272 days & Fat 7-13 %
PANDHARPURI

ORIGIN- Southern Maharashtra, Kolhapur, Solapur, Sangli, & Satara district in Maharashtra

CHARACTER:- Medium sized & broad fore head, prominent nose bones. Horns are long which turned backwards then outwards, goes upwards near to back bone. Colour is black or grey. Can be milked at any place at any time.

MILK YIELD- 1500 liters in 305 days with 7-8% fat. There are similar buffaloes in Vidarbha and Marathwada region called as Nagpuri or Marathwadi buffaloes.
Thank you