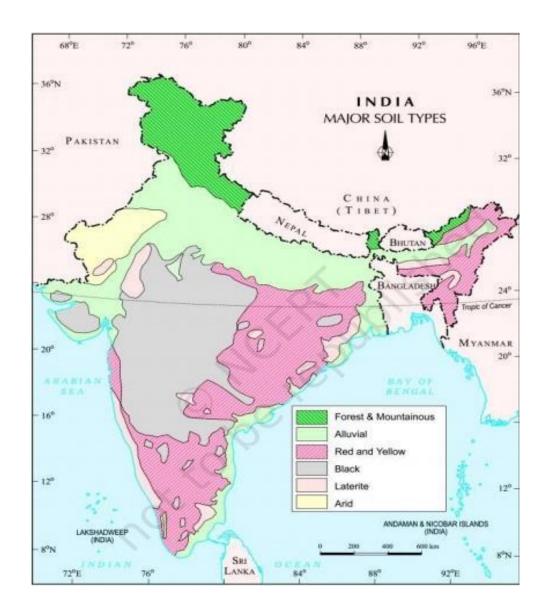


There are 8 types of soils categorized by ICAR <u>Alluvial soil</u>

The alluvial soil occurs mainly in the Satluj- Ganga- Brahmaputra Plains. They are also found in the valleys of the Narmada, Tapi and in the Eastern and Western coastal plains. These soils are mainly derived from the debris brown from the Himalayas. This soil is well-drained and poorly drained with an immature profile in undulating areas. This soil has potash deficiency. The colour of soil varies from light grey to ash. This soil is suited for Rice, maize, wheat, sugarcane, oilseeds etc.

This soil is divided into

- Khadar Soil (New): the khaddar soils are enriched with fresh silts. They are low lying, frequently inundated by floods during the rainy season. It occupies the flood plains of rivers. The khaddar tracts called as kankar are rich in concentration.
- Bhangar Soil (Old): This soil lies above the flood level. It is well-drained but because of the calcium carbonate nodules. The texture of soil varies from the loamy soil to clayey soil.





Laterite Soil

 These soft, when they are wet and 'hard and cloddy' on drying. These are found mainly in the hills of the Western Ghats, Raj Mahal hills, Eastern Ghats, Satpura, Vindhya, Odisha, Chhattisgarh, Jharkhand, West Bengal, North Cachar Hills, and the Garo hills. These are poor in organic matter, nitrogen, potassium, lime and potash. These iron and aluminium rich soils are suitable for the cultivation of rice, ragi, sugarcane and cashew nuts.

Mountain Soil

• These soils have less developed soil profile and mainly found in the valleys and hill slopes of Himalayas. These soils are immature and dark brown in colour. This soil has very low humus and it is acidic in nature. The orchards, fodder, legumes are grown in this soil.

Saline and Alkaline Soils

• Theses also called as Reh, Usar, Kallar, Rakar, Thur and Chopan. These are mainly found in Rajasthan, Haryana, Punjab, Uttar Pradesh, Bihar and Maharashtra. Sodium chloride and sodium sulphate are present in this soil. It is suitable for leguminous crops.



Red Soil

This soil developed on Archean granite occupies the second largest area of the country. They are mainly found in the Peninsula from Tamil Nadu in the south to Bundelkhand in the north and Raj Mahal in the east to Kathiawad in the west. This soil is also known as the omnibus group. The presence of ferric oxides makes the colour of soil red. The top layer of the soil is read and horizon below is yellowish. Generally, these soils are deficient in phosphate, lime, magnesia, humus and nitrogen. This soil is good for the cultivation of wheat, cotton, pulses, tobacco, millets, orchards, potato, and oilseeds.

Black soil

 Black soil is also known cotton soil and internationally it is known as 'Tropical Chernozems'. This is the third largest group in India. This soil is formed from rocks of cretaceous lava. This stretch over the parts of Gujarat, Maharashtra, Western parts of Madhya Pradesh, North- Western Andhra Pradesh, Karnataka, Tamil Nadu, Rajasthan, Chhattisgarh, Jharkhand up to Raj Mahal hills. The soil is rich in iron, lime, calcium, potash, magnesium and aluminium. It has high water retaining capacity and good for the cotton cultivation, Tobacco, citrus fruits, castor, and linseed.

Desert soil

 This soil is deposited by wind action and mainly found in the arid and semi-arid areas like Rajasthan, West of the Aravallis, Northern Gujarat, Saurashtra, Kachchh, Western parts of Haryana and southern part of Punjab. They are sandy with low organic matter. It has low soluble salts and moisture with very low retaining capacity. If irrigated these soil give a high agricultural return. These suitable less water requiring crops like Bajra, pulses, fodder, and guar.

D.K. Upadhyay Sir

Peaty and Marshy Soils

 This soil originates from the areas where adequate drainage is not possible. It is rich in organic matter and has high salinity. They are deficient in potash and phosphate. These mainly found in Sunderbans delta, Kottayam, and Alappuzha districts of Kerala, Rann of Kachchh, deltas of Mahanadi etc.

