

## Description of Agro Climatic Zone & Farming situation of the district

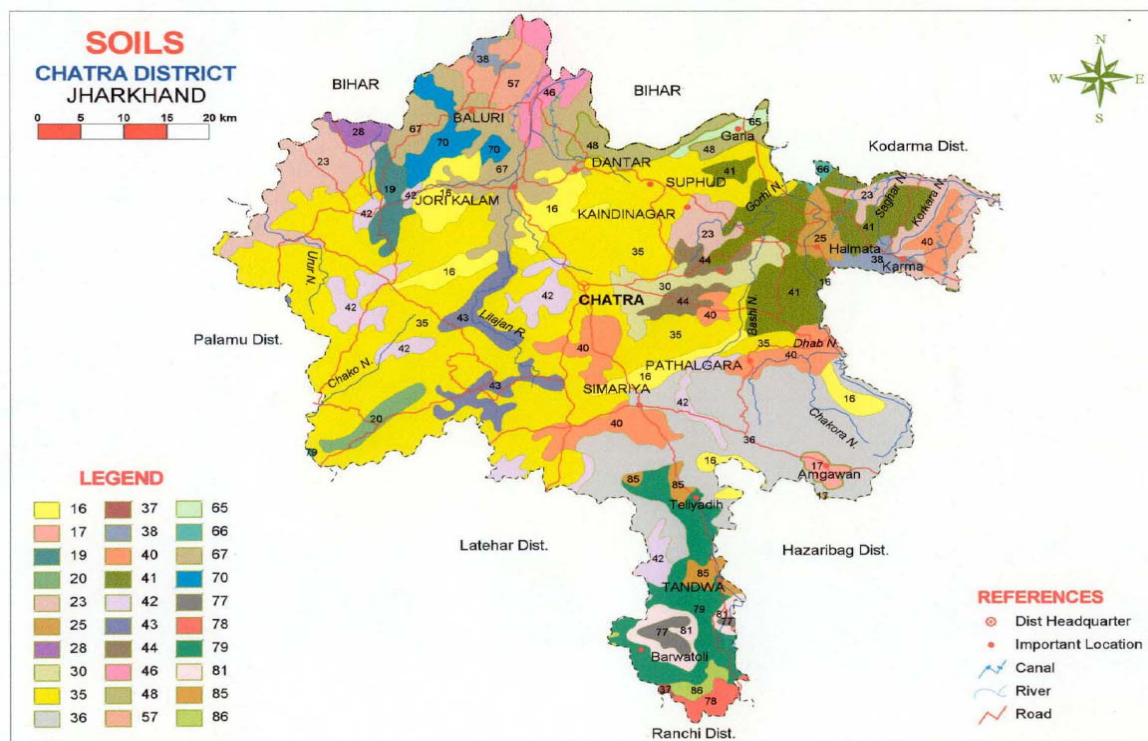


Fig. - 1

The total geographical area of the district is about 3706.00 sq km and is the above of vast number of scheduled caste and tribal pollution. The people of the district are traditionally backward, poor and quite ignorant about technical know of modern agriculture technologies. The Entrepreneurship and scientific value orientation are very poorly developed in the people and they live on only subsistence farming and other agriculture based occupation.

Rainfall is confined mostly to monsoon months of mid-June to mid October during rest of the year. The weather remains mostly dry except for some winter rains which are of uncertain nature. There is not such irrigation in the area. Only 5 per cent of cultivable land under some sort of irrigation. This percentage goes down to 5 percent during rabi season. This has made for a situation of mono cropping in most of the cultivation area up to 90 percent.

The consumption of fertilizer is abnormally low in the district . In spite of the rich potentiality of the district to grow excellent horticultural crops of fruits, vegetables and ornamental plants. It is on account of lack of consciousness, inadequate availability of quality planting materials, weak post, harvest management and lack of essential infrastructural facilities in regard to marketing, storage, processing and packing etc.

Availability of quality seed in time of crop and livestock continue to be a major constraint in rural development, non availability of quality input in time to farmers poses great constraint affecting agricultural production and income to great extent.

The use of improved agricultural implements in the rural area is almost negligible. This is one of the reasons that agriculture continue to be backward in this region.

Marketing of food grains, vegetables and village products in the state's weakness in the rural development chain in this particular region. This cause exploitation of poor producers and consumers by middle men and Mahajans.

Cattle population is very poor genetic stock. The cattle are short in status having neither high yielding capacity nor draft power.

Production of Tassar and Lac has a great potential for increasing the income of farmers. But lack of market and awareness among farming community will be major constraint in its development.

In the transfer of new scientific technology to the rural community, the major constraint is not technology rather is sociological. There has been weak linkage between research, extension education, credit system and development programme connected to the problems in villages.

There are rich minerals belt and many related industries are developed substantially in this region, but their impact on the socio-economic condition of people comparison primary scheduled castes and scheduled tribes has been insignificant except for the limited employment.

### **SOCIO ECONOMIC FEATURES :**

The total population of the district is 7,90,680 as per 2001 census. Out of the total population 4,02,565 are male and 3,88,115 are female.

The sex ratio is 509: 591.

### **AGRO CLIMATE INFORMATION :**

The state of Jharkhand has been divided into three zones namely :

Zone (IV) Central & North Eastern Plateau Zone

Zone (V) – Western Plateau Zone

Zone (VI) South Eastern Plateau Zone

Chatra district come under Agro Climatic Zone IV

## **SOILS OF THE DISTRICT :-**

Soil of this region are sedentary, which are developed from various rock system soils developed in the district are very old and due intensive leaching over the years, soils are of poor fertility status. The soils are old with low base content, low CEC, acidic in reaction and low phosphate content the general characterization of upland, medium land and low land are given below.

### **Upland :**

- ❖ Red, Brownish red in colour
- ❖ Light Texture
- ❖ Well drained
- ❖ Acidic Soil reaction
- ❖ Poor in Organic Carbon , N, C, Mg, P and S.

### **Medium Level**

- ❖ Yellow, yellowish in colour
- ❖ Light to medium Textured
- ❖ Moderately Acidic
- ❖ Poor in A, Ca Mg and Organic Matter.

### **Low Land**

- ❖ Grey or Grayish in colour
- ❖ Heavy Textured
- ❖ Natural to slightly alkaline soil reaction]
- ❖ Poor drained
- ❖ Medium in nitrogen and organic matter