

# ABOUT THE WATERSHED AREA

**Name of the watershed :** Chakra Nala Watershed Project  
Krishi Vigyan Kendra, Majhgawan,  
Satna (M.P.)

Code No.	:	2C1A3C
Total area	:	12536 ha
Villages covered	:	18
No. of Micro-watershed areas	:	17
Started on	:	January 10, 1996

## Characteristics of the Area

The watershed area is situated in the Vindhya Hill Range. It extends from 24°51'15" to 24°57'30" N latitude and 80°43'30" to 80°54'15" E longitude. The strata of the Vindhya Hill Range comprises of Vindhya and Kaimur sandstone, shale, gneiss, granite, quartz and carboniferous rock. The annual rainfall of the area varies from 800 mm to 1,100 mm. July to September are the wettest months, accounting for about 80% of the total precipitation in the area. The summer months are very hot, and winter very cold. Temperatures rise to 45-48 °C in May, and fall to 3-5 °C during December/January. Wind velocity and the rate of evaporation is also very high in summer. The soil in the hillocks is rocky, stony and gravelly, with steep slopes and an undulating topography, and disperse/impoverished vegetal cover. The rate of soil erosion and water runoff is very high and damages cultivatable land. The soil in the plains is sandy loam to loamy in texture. It is shallow in depth, poor in organic matter content and other plant nutrients. The soil's moisture holding capacity is low, so it is only able to support crops of an inferior nature under rain-fed conditions. During the high rainfall months, water flows freely on the ground surface, due to poor percolation and the compact nature of the soil.

Aonla (*Emblica officinalis*), Chironji, Mahua (*Madhuca indica*), Tendu (*Diospyros melanoxylon*), Teak (*Tectona grandis*), Bamboo, Gurga (*Lenia grandis*), Palas (*Butea monosperma*), Khair (*Acacia*