

## **Abstract**

Chichawatni Reserve forest is located in District Sahiwal, Punjab, Pakistan and it is established in 1913. This forest is classified as Irrigated Tropical Thorn Forest. It covers total area of 11,900 acres. As it is a large area so for convenience it is divided into two Sub divisions and 6 Blocks which are further divided into 293 compartments. By the help of quadrat method various ecological parameters i.e. Percentage Cover, % Percentage Frequency and Density were calculated. On the basis of these attributes Important Value Index (IVI) and Family Important Value Index (FIVI) of all the species and families respectively, was evaluated. Total eighty one species were recorded in 100 quadrats. Other than these parameters Shannon-Weiner Diversity Index was calculated that was maximum in Block 3 i.e. 4.18 and highest value of Similarity Index was reported in Block 4 i.e. 0.87. For the study of physiochemical analysis soil samples were collected, the soil of this forest is sandy clay loam. In Chichawatni Reserve Forest association of plant species was also observed by Two Way Indicator Species Analysis (TWINSPAN) which showed the groupings of all plant species at different levels.