

Ecological Study of Habitat Conditions and Distribution of *Cistanche tubulosa* (Rare Plant Species) in Pakpattan District, Pakistan

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Abstract : *C. tubulosa* is a rare parasitic plant. It is found to be endangered and it acquires nutrition by penetrating roots deep in host roots. It has momentous potential to fulfill local and national health needs. This specie became endangered due to its parasitic mode of life and lack of awareness. Investigation of distribution and habitat conditions of *C. tubulosa* from District Pakpattan is the objective of this study. To explore its habitat conditions and community ecology phytosociological survey of *C. tubulosa* in different habitats i.e roadsides and graveyards was carried out. It was found that *C. tubulosa* occurs successfully in different habitats like graveyards and roadsides with specific neighboring species. Soil analysis was carried out by taking soil samples from seven sites. Soil was analyzed for pH, EC, soil texture, OM, N %age, Ca, Mg, P and K, which shows that soil of *C. tubulosa* is rich in all these nutrients.

Keywords : organic matter, potassium, phosphorus, magnesium

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