ABSRTACT

Soil and land resource inventory of Kodiyathur panchayat was undertaken by the Soil Survey Unit, Department of Agriculture to assess the soil and land resources, to identify the problems and to suggest suitable development plans for the area. The report gives a detailed account of the general land characteristics, soils of the area, major problems and management requirements, interpretations and recommendations for various uses.

The panchayat is situated in the south eastern boundary of Kozhikode taluk of Kozhikode district, about 45 km from Kozhikode city and extents over an area of 2981 ha, out of which 2685.78 ha come under garden lands and 251.08 ha under wetlands. The remaining area of 44.14 ha is non agricultural land such as rocks, roads, buildings, streams etc. Of the 251.08 ha under wet lands, only 36.63 ha is under paddy cultivation. 214.45 ha of wet land area has been converted for growing garden land crops. Coconut based mixed cropping system is practiced in major part of the garden lands. Banana, arecanut, tapioca, cashew, rubber and pepper are the other crops cultivated.

Eleven soil series are identified in the panchayat. They are Kakkodi and Ulliyeri series occurring in wet lands and Chaliyar, Kunnamangalam, Sivapuram, Nanminda, Thiruvampady, Koorachundu, Kunduthode, Tanneeramala and Memmala series occurring on garden lands. Based on the characteristics of the soils, land capability classes such as II, III, IV and VI and land irrigability classes 2, 3, 4, 5 and 6 are recognized. IVe is the major land capability subclass and 5t is the major land irrigability subclass. Gravelly clay loam is the predominant surface texture. In general the soils are deep to very deep with moderate erosion hazards. Major portion of the land in the panchayat comes in the slope range of 25 to 35 % and requires conservation measures. Other interpretative studies like hydrologic grouping, crop suitability, soil fertility and production potential of the soils were made. The main problems that are encountered in the panchayat and its suggested management are dealt with briefly. Interpretative maps are also appended.