ABSTRACT

This report deals with the soil and land resources of Kollayil panchayat of Neyyattinkara taluk of Thiruvananthapuram district. The report gives a detailed account of the general characteristics of the panchayat viz., area, soils of the area, major problems and management requirements, interpretations and recommendations for various uses.

Kollayil panchayat comprising an area of 1373 ha is located in south eastern boundary of Neyyatinkara taluk. The garden land covers an area of 1075 ha which is cultivated to coconut, tapioca, banana, pepper, rubber etc. An area of 243 ha falls under wet land portion mainly cultivated to paddy, vegetables, pulses and banana. An area of 55 ha is occupied by roads, thodes, railway lines, buildings etc.

Five soil series are identified based on the soil and land resources inventory of Kollayil panchayat, viz. Neyyatinkara, Vizhinjam, Vilappil, Amaravila and Marukil. An area of 11.2 ha is put under miscellaneous soils where the wet land is reclaimed to grow garden land crops. Major area of the garden land is occupied by Neyyatinkara and Vizhinjam series having an area of 374.75 ha and 730.76 ha respectively. Vilappil series occupies about 24.49 ha. In the valley portion the major area falls under Marukil series about 131.10 ha. An area of 100.70 ha comes under Amaravila series. Coconut is well suited up for the garden land. The performance of rubber is more satisfactory in Vizhinjam series. The valley fringes are suited for the cultivation of banana, vegetables, pepper, areca nut etc.

Four land capability classes such as II, III, IV and VI and four land irrigability classes viz. 2, 3, 4 and 6 are encountered. IVe is the predominant land capability subclass (584.75 ha) and 4t, the land irrigability subclass (584.75 ha). Other interpretative studies like hydrologic grouping, Crop suitability, soil fertility and production potential of the soils are conducted. Detailed description of measures to correct the limitations possessed by the soils of the area is given in the report. Interpretative maps are appended.