ABSTRACT

This report deals with the soil and land resources of Thekkekara panchayat of Mavelikkara taluk of Alappuzha 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.

Thekkekara panchayat having an extent of 2006 ha is located in Mavelikkara taluk of Alappuzha district and forms part of Onattukara region. The panchayat has a garden land area of 1313.5 ha. Wet land area in the panchayat is 692.5 ha. Garden land area is mainly cultivated to coconut, tapioca, banana and sesamum.

During the course of Detailed Soil Survey of the panchayat, 5 soil series were identified. Only one series viz. Mannar and Palamel series occur in the garden land. Of the wetland series encountered, the major portion is covered by Thekkekara series (5282ha) followed by Vetticode (246.5 ha).

Land capability classes noticed in the panchayat are IIs, IIIIs, IIIe and IIlw and the irrigability classes noticed are 2s, 2d and 3t. IIlw is the predominant land capability subclass and 2d the land irrigability subclass. Other interpretative studies like hydrologic grouping, crop suitability, soil fertility, soil conservation priority and production potential of the soils were conducted. The main problems encountered in the panchayat are dealt with in brief. Interpretative maps are appended. This report is expected to serve as a reference guide for planning developmental schemes in the agricultural scenario of the panchayat.