ABSTRACT

This report deals with the soil and land resources of Ranni Angadi panchayat of Ranni Taluk of Pathanamthitta 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.

Ranni Angadi panchayat comprising an area of 2073.94ha is located in Ranni Taluk of Pathanamthitta district. The garden land covers an area of 1577ha. Major portion of garden land is under rubber. The area under wetland cultivated with paddy and vegetables is 131ha. Forest covers an area of 225.94 ha. Six soil series have been identified in the panchayat. These include Chethakkal, Kallopara, Kumaranperoor, Ayroor, Airavan and Sooranaad series. Chethakkal series occupies the major portion of the garden land with an area of 896ha followed by Kallopara series (418ha). The wetland soils namely Airavan and sooranad series covers an area of 131 ha. In the garden lands, coconut based mixed cropping pattern is most suited. In areas with a slope range of 10 to 15 %, rubber is the suitable crop. Paddy is grown in 36 ha.

Four land capability classes such as II, III, IV and VI and four land irrigability classes viz. 2, 3, 4 and 6 are encountered. IVes is the predominant land capability subclass and 4st, the land irrigability subclass. Other interpretative studies like hydrologic grouping, Crop suitability, soil fertility and production potential of the soils are conducted. The main problems encountered in the panchayat are dealt with briefly. Interpretative maps are also appended.