ABSTRACT

Soil and land resource inventory of Chittattukara panchayat was undertaken by the Soil Survey wing of the Department of Agriculture during the year 2007 to assess the resources of the area, to identify the problems and to suggest suitable development programmes for sustained and integrated development of the area.

Chittattukara panchayat is located in Paravur taluk of Ernakulam district and extends over 946 ha. The garden lands cover an area of 673 ha and are mainly cultivated with coconut, arecanut, banana, tapioca, etc. The total area under wetland is 77 ha. Paddy is cultivated only in an area of 21 ha. The wetlands are used for raising garden land crops or fallowed. An area of 100 ha of the wetlands is converted for the cultivation of tapioca, banana etc or used for non-agricultural purposes. The soil series identified in the garden land are Udayamperoor, Parakkadavu and Vytilla. The major portion of the garden land is under Udayamperoor series (321ha) followed by Parakkadavu series (234ha) and Vytilla (118.0 ha). Vypeen series (41ha) and Ayiroor (36 ha) are the soils identified in the wetlands.

Based on the characteristics of the soils, land capability subclasses IIw, Ille,IIIw, IIIs, IVs, IVse and IVsw and land irrigability subclasses 2d, 3d, 3t, 4s, 4st and 5sd were recognized in the panchayat. Ille and 4st are the predominant land capability class and land irrigability class respectively. Other interpretative studies like hydrologic grouping, crop suitability, fertility and production potential of the soils are also included in the report. The problems encountered in the panchayat are dealt with briefly. Interpretative maps are appended.