ABSTRACT

Soil and land resource inventory of Panavoor panchayat was undertaken by the Soil Survey wing of the Department of Soil Survey & Soil Conservation during 2009 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.

Panavoor panchayat is located in Nedumangad taluk of Thiruvananthapuram district and extends over 2190 ha. The panchayat is part of the midland and midupland tract. The garden land covers an area of 1650 ha and is cultivated with rubber, coconut, banana, tapioca, pepper, etc. The wetland which extends over 389 ha has been converted for cultivating banana, tapioca, rubber, vegetables, etc. The soil series identified in the garden land are Kudithukki (806 ha) and Nedumagad series (844 ha). The soils in the converted wetlands were grouped as Miscellaneous soils.

Based on the characteristics of the soils, land capability subclasses IIIw, IIIe, IVe, Vle, Vles and VIIes and land irrigability subclasses 2d, 3t, 4t and 6st were recognized in the panchayat. IVes 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.