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

The panchayat is located in the north eastern part of the taluk which is about 8km from Kothamangalam town and covers an area of 2152.89ha. The garden land occupies an area of 1664.83ha, with rubber as the major crop. Coconut, pineapple, banana etc., are the other garden land crops. The wetland covers an area of 488.06ha and is cultivated mainly with paddy. Perumbavoor (913.91ha) is the major soil identified in the garden land. Odakkali (729.35ha) ,Kothamangalam(144.27ha) and Punnamattom(21.57ha) are the other garden land soils. Varapetty (248.72ha) and Ikkaranad (95.07ha) are the soils seen in the wetland. The area is part of the rolling to undulating mid land tract and the relief is normal to excessive.

Based on the characteristics of the soils three land capability classes such as II, III and IV and four land irrigability classes viz. 2, 3, 4 and 5 were recognised. IVes is the predominant land capability subclass and 5ts, the land irrigability subclass. Gravelly clay loam is the predominant surface texture. In general the soils are moderately deep and erosion is moderate. The general slope gradient ranges from 10-25%. Other interpretative studies like hydrologic grouping, crop suitability, production potential and fertility of the soils were made. The main problems encountered in the panchayat are dealt with briefly. Interpretative maps are appended.