Soil and land resource inventory of Kallooppara panchayat was undertaken by the Soil Survey Unit, Department of Agriculture during November - December 2005 to assess the soil and land resources, to identify the problems and to suggest suitable development plans for the area. The report gives a detailed account of the general land characteristics, soils of the area, major problems and management requirements, interpretations and recommendations for various uses.

Kallooppara panchayat covering an area of 1686 ha is located in Mallappally taluk of Pathanamthitta district. Physiographically, the panchayat comes under midland region. The major crops in the panchayat are rubber, coconut, banana, tapioca, pepper and paddy. The garden land covers an area of 1441 ha and coconut based mixed cropping is prevalent in the area. The wetland covers an area of 190 ha. 15 ha of wet land area have been converted for construction purposes and for growing garden land crops. Cultivation of paddy is limited to 23 ha. A single crop of paddy (puncha crop) is cultivated. During the survey, four soil series were identified in the panchayat; Kaviyoor, Kallooppara, and Ayroor in garden land and Mallassery series in the wetland.

The area has been classified into five land capability subclasses and six land irrigability subclasses. IVes is the predominant land capability subclass and 5st, the land irrigability subclass. Gravelly clay loam is the predominant surface texture. In general the soils are moderately deep to deep and the erosion is moderate. Other interpretative studies like hydrologic grouping, crop suitability, soil fertility and production potential of the soils were made. The main problems that are encountered in the panchayat and its suggested management are dealt with briefly. Interpretative maps are also appended.