Soil and land resource inventory of Kizhakkambalam panchayat was undertaken by the Soil Survey wing of the Department of Agriculture during 2003 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.

Kizhakkambalam panchayat is located in Kunnathunadu taluk of Ernakulam district and extends over 3157 ha. The garden lands cover an area of 1938.0 ha and the major crops grown are rubber, coconut, banana, tapioca, arecanut, pepper, pineapple etc. The total area under wetland is 1195 ha. Paddy is cultivated only in 66.7 ha. An area of 24.0 ha of the wetlands are converted for the cultivation of garden land crops. The soil series identified in the garden land are Odakkali, Perumbavoor, Kilikulam and Irapuram. The major portion of the garden land is under Kilikulam (580.5 ha) followed by Irapuram (576.5ha). Kothamangalam, Kuttamangalam, Charaladu, Mulamthuruthy and Thrikkakara are the soils identified in the wetlands, of these the major share is under Kothamangalam series (564.5 ha) followed by Thrikkakara (221.5 ha). The soils identified in the converted wetlands were grouped as Miscellaneous soils.

Based on the characteristics of the soils, land capability subclasses IIw, IIIw, IIIe, IIle, IIIes, IVe, IVsw and Vle and land irrigability subclasses 2d, 2t, 3t, 3st, 3sd and 4t were recognized in the panchayat. IIw and 2d 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.