Soil and land resource inventory of Njarackal panchayat was undertaken by the Soil Survey wing of the Department of Agriculture during 2006 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.

Njarackal is a coastal panchayat located in Kochi taluk of Ernakulam district and extends over 860.0 ha. The panchayat is part of the lowland tract. Pisciculture is the major occupation of the people of the panchayat. The garden land covers an area of 399.5 ha and is under coconut, arecanut, banana, vegetables, pepper, etc. The total area under wetland is 203.5 ha and is composed of Pokkali lands. An area of 15.0 ha of the original wetlands was converted for the cultivation of coconut, vegetables, etc. Water bodies extend over 242.0 ha. A single crop of paddy (Virippu) followed by prawn culture is the traditional practice followed in the wetlands. The soil series identified in the garden land are Vyttila (163.5 ha) and Udayamperoor series (236.0 ha). Vypeen (203.5 ha) is the only soil identified in the wetland.

Based on the characteristics of the soils, land capability subclasses IIIs, IVs and IVsw and land irrigability subclasses 2s, 3s and 4sd were recognized in the panchayat. IIIs and 2s 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.