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Spatial Planning for Drought Mitigation in Neyyattinkara

Neyyattinkara is a taluk in Thiruvananthapuram district which experiences seasonal drought like conditions every year during the summer months. This study focus on the existing condition of Neyyattinkara in terms of incidence and severity of droughts, causes and impacts of droughts and the development of appropriate strategies for drought mitigation in Neyyattinkara taluk. It also propose a master plan for the development of Neyyattinkara taluk at watershed level by using GIS (Geographic Information System) as a decision making tool. This project identifies different technologies for water conservation and to construct water harvesting structures for getting sufficient ground water recharge. GIS and Remote Sensing techniques are applied for scientifically evaluating the suitable sites where water harvesting structures can be constructed. Through this, it may meet the basic material and physical needs of the local population - human and animal - in a drought period so that there is minimal distress.