



# Identification Problems of Associated with the Paddy Cultivation in the Thihagoda Divisional Secretariate Division

D.C.L. Gurusinghe, P.D.S. Sirimanna, and W.K.K.S. Lakmal

*Faculty of Humanities and Social Sciences, University of Ruhuna*

## Abstract

Thihagoda Divisional Division in Secretariate Matara District is located within an agricultural setting with is at present identify with barren paddy fields. Therefore, the person in the area continuously is experiencing problems with regard to the paddy cultivation.

The main objective of the study is to identify the resource for the problems associated with the paddy cultivation in the area. Four *Grama Niladhari Wasam* (GN Division) namely Aththudawa West, Watagedara, Watagedara East, Bandaththara are selected for this study. The data and information was collected using a questionnaire survey, conducting discussions with 75 families who are engaged in paddy cultivation. The main respondent was the farmers of the family. The observation was also used to clarify the data. The data was analyzed using Geographical Information Systems (GIS), Computer Base Geographical Analysis (SPSS) and Excel. Maps were constructed using Arc view, to show the distribution of barrens land in the area and change over time.

Thihagoda Divisional Secretariat Division has paddy land hectare 2681 in 26.8% of whole land is badland as various problems. The finding reveal that the extent of cultivated 221.8 acreage in Aththudawa West, 130.4 acreage in watagedara area, 48 acreage in watagedara East, and 8 acreage in Bandaththra. The main problem identify was the salinity in the area. The areas studied are low lands below mean sea level and therefore the sea level rice experienced during past Holocene period could be one of the reasons e salinity behind the salinity in the area. It can be identify that the recent construction under the Nilwala Project. Also the has been influencing to increase the state of salinity, through flooding and inundation of paddy land. In order to minimize the problems, new types of paddy. Such as “*Ma vee*”, “*Pokkali*” and “*Dewaraddiri*” to suitable floods. Also the grasses for animals husbandry can be cultivated within the area.

**Keywords:** *Paddy Cultivation, Problems, Salinity, GIS*