



## **Study of The Impact of Anthropogenic Activities on Water Quality on Kollihills using GIS and its Social Consequences**

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**Abstract :** The present study on Study of the impact of anthropogenic activities on Water quality in Kollihills and its social consequences emerged with the objective of assessing the current status of water supply services and its impact in hotspots, identifying the consequences. The study was done in four hotspots identified as Agayaganga falls, Arapaleeswar temple, Namakkal district. Then using purposive sampling technique nearly 60 samples were collected. To understand the current status of water quality and consequences an analysis on physical, chemical and biological parameters was done to determine the different levels of contamination using Bureau of Indian standards. Participatory Rural Appraisal tools such as Transect walk, Key Informant Interview. GIS is used as the tool for predicting Tourism Resource Inventories, Identifying most suitable locations for tourism development and analysing relationships associated with resource use. Apart from the above the consequences due to the contaminated water and remedial measures on the people was analysed. Based on the results detailed measures were given.

**Keywords :** Sampling technique, physio-chemical parameters, Transect walk, Key informant interview.

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