

Assessment of Hydrogeochemical Impacts of Shrimp Farming on Coastal Watershed

Name of PI:- Dr. Nila Rekha, Senior Scientist, Central Institute of Brackish Water Aquaculture, Chennai

Objectives :

- a) To investigate the hydro geochemistry and geochemical patterns of the ground water in the identified sub/mini/micro watershed and to develop a hydrogeochemical model using Multivariate analysis (Factor analysis/Principal Component Analysis).
- b) To evaluate the impact of aquaculture on the changes in status and magnitude of ground water quality over the period of time (time series-trend analysis).
- c) To integrate the biophysical and socio economic impacts using GIS framework and to identify the vulnerable pockets in the watershed using multi criteria evaluation techniques.
- d) To suggest mitigatory and best management practices using simulation studies of ground water system.

Sanctioned Cost of the Scheme:- Rs. 36,07,933

Duration and Date of Start :- 3 years, 15.03.2011