



Assessment of Groundwater Quality in Andaman and Nicobar Islands

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Abstract

In an island ecosystem, assessment of groundwater for its quality is very essential for understanding salinization and judicious use of water. Groundwater occurs in three different geological formations in which marine sediment formation in the coastal areas can be judiciously exploited only by rings well. Stratified random water samples (496) were collected covering all the three districts and analyzed for its hydro-chemical properties. The results showed that water samples from only three blocks exceeded EC value of more than 5.0 dS m⁻¹ accounting for 15% while none of the sample found to contain RSC. The distribution of samples in different water quality categories indicated that 80% samples were good in quality and 4% samples were saline while 5% samples found to be high SAR saline.

Key words: Water quality, Tropical islands, Seasonal variation, Salinity, SAR, RSC