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Abstract: water samples obtained from different sources like handpumps, wells, taps, ponds and rivers in Ranchi and adjacent areas were analyzed for their bacteriological characteristics. The mean value of coliform of water ranged from 0 to 1800+ per 100 ml. Out of 100 water samples 47% had no coliform, while in 6% samples the number of organism ranged between 1 to 10, in 7% sample it ranged between 11 to 20, in 19% it ranged between 21 and 100 and in 21% sample it was above 100 coliform per 100 ml. The mean value of faecal streptococci ranged from 0 to 120. Analysis of water sample revealed that 80% of 100 samples did not show presence of faecal streptococcus, whereas in 7% samples the organism ranged between 1 to 10, in 8% sample it ranged between 11 to 20, in 2% it ranged between 21 to 100 and in 3% it was above 100 faecal streptococci per 100 ml of water. Standard plate count (SPC) were found to range from 0 to 6.0429 with the mean of 1.6901 to 6.0429 log 10 cfu/ml. In 46% samples the SPC was found to be ≤ 4 cfu/ml, in 38% samples it was between 4 -5 cfu/ml and in 16% samples it was >5 cfu/ml. Examination of water revealed the isolates of E.coli 26%, Klebsiella 8% and Pseudomonas 7% from water samples.

Description: BACTERIOLOGICAL QUALITY OF DRINKING WATER FROM DIFFERENT SOURCES IN AND AROUND RANCHI

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