research

A Thesis

Environmental Science

Nepal is the 2rd richest country in water resource in the world, possessing about 2.27% of the world water resource (CBS 1999). Despite this fact planned water supply was stated only in the fourth plan (1970-1975). The national coverage of water supply system was only about 4% in 1970. A separate institution, the Department of Drinking Water Supply and Sewerage (DWSS) was established during that period. By the end of water supply and samitation decade (1990), the coverage substantially increased to 36% of the total population, with the rural population and urban population at 33% and 67% respectively. The recent Between Census Households Information, Monitoring and Evaluation System (BCHIMES) report-2000 indicates water coverage at 78% for rural and 92.3% for the urban population (Shrestha, 2003).

Sanitation facility is very poor condition having only 29% national coverage and issue on water quality has not been given proper attention (Shrestha et.al, 2203). Rural communities continue to use the most convenient source of water irrespective of quality. Regular outbreaks of water borne epidemics and increasing number of patients being admitted to hospitals due to water related diseases indicates that only supplying of drinking water is not sufficient to improve public health status unless continued effort is made both on water supply and sanitation.

Nepal water resources are considerable with surface run-off in the order of 200 km3 annually. In general, there is very little rainfall from November to January. In addition to surface water, Nepal's ground water resources are also extensive.

In Nepal, the guideline value for national drinking water quality standard has been suggested by Pyakural (1994) and Task Force (1995)

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