

Research Article

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Fluctuation in quality of underground wells/ tube wells water with time in Dev Bhumi Dwarka district of Gujarat

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Summary

To study the fluctuation in quality of irrigation water, thirty representative underground well/ tube well water samples were collected from each taluka of Dev Bhumi Dwarka district viz., Kalyanpur, Dwarka, Khambhalia and Bhanvad during before monsoon (May, 2015) and at the same site during after monsoon (November, 2015). The mean EC (dS m^{-1}), pH, SAR, RSC and SSP values were 2.00, 7.67, 5.34, 0.45 and 52.01 before monsoon and changed to 1.79, 7.88, 4.23, 0.26 and 43.16 after monsoon with per cent improvement of 10.50, -2.74, 20.79, 42.22 and 17.02, respectively. The quality indices of irrigation water like EC, SAR, RSC and SSP of the irrigation decreased and improved, while that of pH value increased after monsoon as compared to that observed before monsoon.

Key words : Fluctuation in quality of irrigation water, Wells/ tube wells water quality

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