

**Research Article**

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# Assessment of quality of irrigation water of Kachchh district of Gujarat

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**Summary**

A survey of quality of irrigation water was carried out by Agriculture Research Station, S. D. Agricultural University, Bhachau- Kachchh during 2009-10. Total 369 water samples were collected from 10 different talukas of Kachchh district for assessment of quality of irrigation water. RSC of most of water sample were observed safe (88.89%), only 5.15 and 5.96 per cent sample were categorized under marginal and unsafe. RSC level was in order. Mundra > Mandvi > Bhuj. Chloride concentration of Kachchh district water samples were observed in order Mandvi > Gandhidham > Mundra > Bhachau > Rapar. Soluble salt was observed in order Mundra > Rapar > Mandvi > Gandhidham > Abdasa. In case of sodium hazard Mundra > Mandvi > Abdasa.

**Key words :** Sodium adsorption ratio (SAR), Residual sodium carbonate (RSC), Quality of irrigation water

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