



## Seasonal Variation of Groundwater Quality of Coastal Villages of Olpad and Choryasi Taluka, Surat District, Gujarat, India

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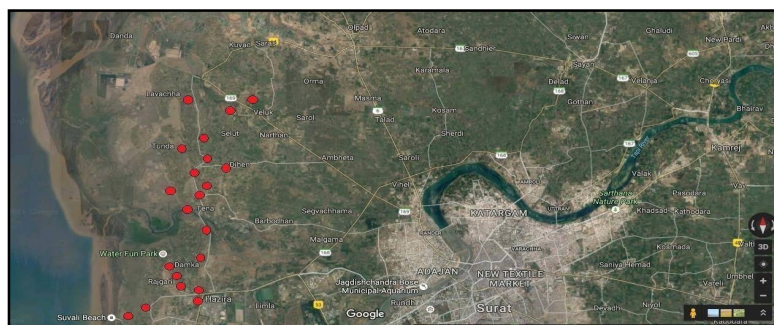
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### ABSTRACT

Seasonal study on the groundwater quality was carried out among the coastal villages of Olpad and Choryasi taluka, Surat district in the year 2015-2016 and the study covers three seasons namely post monsoon, pre monsoon and monsoon. Ground water samples were collected from 20 different sampling stations of coastal villages of Olpad and Choryasi taluka, Surat district and were analyzed for their physico-chemical characteristics by using the standard analytical procedure of APHA. The samples were analyzed for the following parameters like pH, Total alkalinity, Total hardness, Chloride and TDS. The results conclude that Total alkalinity, Total hardness, Chloride and TDS are above the permissible limit in the three seasons through all of these factors; may pose health hazard (on long term) the degraded quality of drinking water and therefore water requires treatment before using it for drinking purpose directly.

### Graphical Abstract



Aerial view of Coastal villages of Olpad and Choryasi Taluka, Surat-Gujarat  
(Image source: Google earth) Sampling stations

**Keywords:** Ground water, Physico-chemicals parameters, Seasonal study, Olpad and Choryasi Taluka.