

Name of the Theme: Earth, Ocean, Atmospheric & Environmental Sciences

**Analysis of Physico-chemical parameters of water samples in parts of
Amrabad and Padara ,Nagarkurnool District,Telangana .**

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Abstract: Groundwater quality study has been carried out in parts of Amrabad and Padara Mandals, Nagarkurnool district. The objective of this study is to find the suitability of water for different purposes. Forty-one groundwater samples were collected in the post-monsoon season from different bore/dug wells, surface water and were analyzed for Physico-chemical parameters. The study reveals that the agriculture activities, geological formation and local environmental conditions control the groundwater quality. Groundwater suitability for drinking and irrigation purposes are examined using standards. The WHO-2011 permissible limits. Based on the analytical data waters unsuitable for drinking and agriculture are identified.

Keywords: Groundwater, Post-monsoon and Drinking purpose.